

```

      ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
1  ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
   ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
51  ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
   · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101 CATTCTGGCT GGTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT
   ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu AlaValSer·
151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTGCTGTATC
   ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·
201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAT ATGAGAGGTG
   · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp
251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG
   LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
301 TTATTAAGTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC
   ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
   · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA
   LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA
   ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
   · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla
551 TTAAGTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA
   IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·
601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT
   ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp LeuValAsnLys·
651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCCGAC CTTGTTAACA
   · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTAA AGAATCTTCT
   AsnAla
751 AATGCT

```

Figure 1-1

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MetLysLeuLeu LeuIleLeu GlySerVal IleAlaLeuPro ThrPheAla·
1  ATGAAATTAT TACTGATATT AGGTAGTGTT ATTGCACTTC CTACATTTGC
  ·AlaGlyGly GlyAspLeuAsp AlaSerAsp TyrThrGly ValSerPheTrp·
51  TGCAGGTGGT GGTGACCTTG ATGCTAGTGA TTACACTGGT GTTTCTTTTT
  · LeuValThr AlaAlaLeu LeuAlaSerThr ValPhePhe PheValGlu
101 GGTTAGTTAC TGCTGCTTTA TTAGCATCTA CTGTATTTTT CTTTGTTGAA
  ArgAspArgVal SerAlaLys TrpLysThr SerLeuThrVal SerGlyLeu·
151 AGAGATAGAG TTTCTGCAAA ATGGAAAACA TCATTAAGTG TATCTGGTCT
  ·ValThrGly IleAlaPheTrp HisTyrMet TyrMetArg GlyValTrpIle·
201 TGTTACTGGT ATTGCTTTCT GGCATTACAT GTACATGAGA GGGGTATGGA
  · GluThrGly AspSerPro ThrValPheArg TyrIleAsp TrpLeuLeu
251 TTGAAACTGG TGATTGCGCA ACTGTATTTA GATACATTGA TTGGTTACTA
  ThrValProLeu LeuIleCys GluPheTyr LeuIleLeuAla AlaAlaThr·
301 ACAGTTCCTC TATTAATATG TGAATTCTAC TTAATTCTTG CTGCTGCAAC
  ·AsnValAla GlySerLeuPhe LysLysLeu LeuValGly SerLeuValMet·
351 TAATGTTGCT GGATCATTAT TTAAGAAATT ACTAGTTGGT TCTCTTGTTA
  · LeuValPhe GlyTyrMet GlyGluAlaGly IleMetAla AlaTrpPro
401 TGCTTGTGTT TGGTTACATG GGTGAAGCAG GAATCATGGC TGCATGGCCT
  AlaPheIleIle GlyCysLeu AlaTrpVal TyrMetIleTyr GluLeuTrp·
451 GCATTCATTA TTGGGTGTTT AGCTTGGGTA TACATGATTT ATGAATTATG
  ·AlaGlyGlu GlyLysSerAla CysAsnThr AlaSerPro AlaValGlnSer·
501 GGCTGGAGAA GGAAATCTG CATGTAATAC TGCAAGTCCT GCTGTGCAAT
  · AlaTyrAsn ThrMetMet TyrIleIleIle PheGlyTrp AlaIleTyr
551 CAGCTTACAA CACAATGATG TATATTATCA TCTTTGGTTG GGCGATTTAT
  ProValGlyTyr PheThrGly TyrLeuMet GlyAspGlyGly SerAlaLeu·
601 CCTGTAGGTT ATTTACAGG TTACCTGATG GGTGACGGTG GATCAGCTCT
  ·AsnLeuAsn LeuIleTyrAsn LeuAlaAsp PheValAsn LysIleLeuPhe·
651 TAACTTAAAC CTTATCTATA ACCTTGCTGA CTTTGTTAAC AAGATTCTAT
  · GlyLeuIle IleTrpAsn ValAlaValLys GluSerSer AsnAla***
701 TTGGTTTAAT TATATGGAAT GTTGCTGTGA AAGAATCTTC TAATGCTTAA

```

Figure 1-2

ThrMetGlyLys LeuLeuLeu IleLeuGly SerValIleAla LeuProThr·  
 1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGTTATTG CACTTCCTAC  
 ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·  
 51 ATTTGCTGCA GGTGGTGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT  
 · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe  
 101 CTTTTTGGTT AGTTACTGCT GCTCTATTAG CATCTACTGT ATTTTTCTTT  
 ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·  
 151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC  
 ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·  
 201 GGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAC ATGAGAGGGG  
 · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp  
 251 TATGGATTGA GACTGGTGAT TCGCCAACCTG TATTTAGATA CATTGATTGG  
 LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·  
 301 TTACTAACAG TTCCTCTATT GATATGTGAA TTCTACTTAA TTCTTGCTGC  
 ·AlaThrAsn ValAlaAlaGly LeuPheLys LysLeuLeu ValGlySerLeu·  
 351 TGCAACAAAT GTTGCTGCTG GCCTGTTTAA GAAATTATTG GTTGGTTCTC  
 · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAsnAla  
 401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AGGCAGGAAT TATGAACGCT  
 TrpGlyAlaPhe ValIleGly CysLeuAla TrpValTyrMet IleTyrGlu·  
 451 TGGGGTGCAT TCGTTATTGG GTGTTTAGCT TGGGTATACA TGATTTATGA  
 ·LeuTrpAla GlyGluGlyLys AlaAlaCys AsnThrAla SerProAlaVal·  
 501 ACTATGGGCT GGAGAAGGCA AGGCTGCATG TAATACTGCA AGTCCTGCTG  
 · GlnSerAla TyrAsnThr MetMetTyrIle IleIlePhe GlyTrpAla  
 551 TGCAATCAGC TTACAACACA ATGATGTATA TAATCATCTT TGGTTGGGCA  
 IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·  
 601 ATTTATCCTG TAGGTTATTT CACAGGTTAC CTAATGGGTG ACGGTGGATC  
 ·AlaLeuAsn LeuAsnLeuIle TyrAspLeu AlaAspPhe ValAsnLysIle·  
 651 AGCTCTTAAC TTAAACCTTA TCTATGACCT TGCTGACTTT GTTAACAAGA  
 · LeuPheGly LeuIleIle TrpAsnValAla ValLysGlu SerSerAsn  
 701 TTCTATTTGG TTTAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTAAT  
 AlaLys  
 751 GCTAAGG

Figure 1-3

ThrMetGlyLys LeuLeuLeu IleLeuGly SerValIleAla LeuProThr·  
 1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGTTATTG CACTTCCTAC  
 ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·  
 51 ATTTGCTGCA GGTGGCGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT  
 · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe  
 101 CTTTTTGGTT AGTTACAGCT GCTCTATTAG CATCTACTGT ATTTTTCTTT  
 ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·  
 151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC  
 ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·  
 201 TGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAC ATGAGAGGAG  
 · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp  
 251 TATGGATTGA AACTGGTGAT TCGCCTACTG TATTTAGATA CATTGATTGG  
 LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·  
 301 TTACTAACAG TTCCTTTATT AATATGTGAA TTCTACTTAA TTCTTGCTGC  
 ·AlaThrAsn ValAlaGlySer LeuPheLys LysLeuLeu ValGlySerLeu·  
 351 TGCAACTAAT GTTGCCGGCT CATTATTTAA GAAACTTCTA GTTGGTTCTC  
 · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAlaAla  
 401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AAGCAGGAAT TATGGCAGCT  
 TrpProAlaPhe IleIleGly CysLeuAla TrpValTyrMet IleTyrGlu·  
 451 TGGCCTGCAT TCATTATTGG GTGTTTAGCT TGGGTATACA TGATTATGA  
 ·LeuTyrAla GlyGluGlyLys SerAlaCys AsnThrAla SerProSerVal·  
 501 ACTATATGCT GGAGAAGGAA AATCTGCATG TAATACTGCA AGTCCTTCGG  
 · GlnSerAla TyrAsnThr MetMetAlaIle IleValPhe GlyTrpAla  
 551 TTCAATCAGC TTACAACACA ATGATGGCTA TCATAGTCTT CGGTTGGGCA  
 IleTyrProIle GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·  
 601 ATTTATCCTA TAGGTTATTT CACAGGTTAC CTAATGGGTG ACGGTGGATC  
 ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysIle·  
 651 AGCTCTTAAC TTAAACCTTA TTTATAACCT TGCTGACTTT GTTAACAAGA  
 · LeuPheGly LeuIleIle TrpAsnValAla ValLysGlu SerSerAsn  
 701 TTCTATTTGG TTAAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTAAT  
 AlaLys  
 751 GCTAAGG

Figure 1-4

ThrMetGlyLys LeuLeuLeu IleLeuGly SerValIleAla LeuProThr·  
 1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGTTATTG CACTTCCTAC  
 ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·  
 51 ATTTGCTGCA GGTGGTGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT  
 · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe  
 101 CTTTTTGGTT AGTTACTGCT GCTCTATTAG CATCTACTGT ATTTTCTTT  
 ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·  
 151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC  
 ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·  
 201 GGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAC ATGAGAGGGG  
 · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp  
 251 TATGGATTGA GACCGGTGAT TCGCCAACTG TATTTAGATA CATTGATTGG  
 LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·  
 301 TTAATAACAG TTCCTCTATT GATATGTGAA TTCTACTTAA TTCTTGCTGC  
 ·AlaThrAsn ValAlaAlaGly LeuPheLys LysLeuLeu ValGlySerLeu·  
 351 TGCAACAAAT GTTGCTGCTG GCCTGTTTAA GAAATTATTG GTTGGTCTC  
 · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAsnAla  
 401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AGGCAGGAAT TATGAACGCT  
 TrpGlyAlaPhe ValIleGly CysLeuAla TrpValTyrMet IleTyrGlu·  
 451 TGGGGTGCAT TCGTTATTGG GTGTTTAGCT TGGGTATACA TGATTTATGA  
 ·LeuTrpAla GlyGluGlyLys AlaAlaCys AsnThrAla SerProAlaVal·  
 501 ACTATGGGCT GGAGAAGGCA AGGCTGCATG TAATACTGCA AGTCCTGCTG  
 · GlnSerAla TyrAsnThr MetMetTyrIle IleIlePhe GlyTrpAla  
 551 TGCAATCAGC TTACAACACA ATGATGTATA TAATCATCTT TGGTTGGGCA  
 IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·  
 601 ATTTATCCTG TAGGTTATTT CACAGGTTAC CTAATGGGTG ACGGTGGATC  
 ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysIle·  
 651 AGCTCTTAAC TTAAACCTTA TCTATAACCT TGCTGACTTT GTTAACAAGA  
 · LeuPheGly LeuIleIle TrpAsnValAla ValLysGlu SerSerAsn  
 701 TTCTATTTGG TTTAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTAAT  
 Ala  
 751 GCT

Figure 1-5

```

      ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
1  ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
   ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
51  ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
   · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101  CATTCTGGCT GGTACAGCT GGTATGTTAG CGGCAACTGT ATTCTTTTTT
   ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu ThrValSer·
151  GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTACTGTATC
   ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·
201  TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAC ATGAGAGGTG
   · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp
251  TTTGGATAGA TACTGGTGAT ACACCAACAG TATTTAGATA TATTGATTGG
   LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
301  TTATTAAGTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC
   ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351  TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
   · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
401  TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGTTT AGCTCCTGTA
   LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451  TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA
   ·LeuHisMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501  GCTACATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
   · AsnSerAla TyrAsnAla MetMetLysIle IleValIle GlyTrpAla
551  TTAAGTCTGC ATACAACGCA ATGATGAAGA TTATTGTTAT TGGATGGGCA
   IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetSerGly AspGlyVal·
601  ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGAGTG GTGACGGTGT
   ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp PheValAsnLys·
651  ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCTGAC TTTGTTAACA
   · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701  AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTAA AGAATCTTCT
   AsnAla
751  AATGCTA

```

Figure 1-6

ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer.  
 1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC  
 ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer.  
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT  
 · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe  
 101 CATTCTGGCT GGTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT  
 ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu ThrValSer.  
 151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTAGTGATC  
 ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal.  
 201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAT ATGAGAGGTG  
 · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp  
 251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG  
 LeuLeuThrVal ProLeuGln ValValGlu PheTyrLeuIle LeuAlaAla.  
 301 TTATTAAGTG TTCCATTACA AGTGGTTGAG TTCTATCTAA TTCTTGCTGC  
 ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu.  
 351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT  
 · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal  
 401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA  
 LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu.  
 451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA  
 ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal.  
 501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG  
 · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla  
 551 TTAAGTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA  
 IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal.  
 601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT  
 ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp PheValAsnLys.  
 651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCTGAC TTTGTTAACA  
 · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer  
 701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTAA AGAATCTTCT  
 AsnAla  
 751 AATGCT

Figure 1-7

```

      ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
1  ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
   ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
51  ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
   · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101  CATTCTGGCT GGTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT
   ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu ThrValSer·
151  GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTACTGTATC
   ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·
201  TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAT ATGAGAGGTG
   · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp
251  TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG
   LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
301  TTATTAAGTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC
   ·CysThrAsn ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351  TTGTACAAAT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
   · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
401  TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT GGCTCCTGTA
   TrpProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451  TGGCCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA
   ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501  GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
   · AsnSerAla TyrAsnAla MetMetValIle IleValVal GlyTrpAla
551  TTAAGTCTGC ATACAACGCA ATGATGGTGA TTATTGTTGT TGGATGGGCA
   IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·
601  ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT
   ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp LeuValAsnLys·
651  ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCCGAC CTTGTTAACA
   · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701  AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTAA AGAATCTTCT
   AsnAla
751  AATGCT

```

Figure 1-8



ThrMetGlyLys LeuLeuLeu IleLeuGly SerValIleAla LeuProThr·  
 1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGTTATTG CACTTCCTAC  
 ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·  
 51 ATTTGCTGCA GGTGGTGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT  
 · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe  
 101 CTTTTTGTTT AGTTACTGCT GCTCTATTAG CATCTACTGT ATTTTCTTTT  
 ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·  
 151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC  
 ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·  
 201 TGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAC ATGAGAGGGG  
 · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp  
 251 TATGGATTGA GACTGGTGAT TCGCCAACCTG TATTTAGATA CATTGATTGG  
 LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·  
 301 TTAATAACAG TTCCTCTATT GATATGTGAA TTCTACTTAA TTCTTGCTGC  
 ·AlaThrAsn ValAlaAlaGly LeuPheLys LysLeuLeu ValGlySerLeu·  
 351 TGCAACAAAT GTTGCTGCTG GCCTGTTTAA GAAATTATTG GTTGGTCTC  
 · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAsnAla  
 401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AGGCAGGAAT TATGAACGCT  
 TrpProAlaPhe IleIleGly CysLeuAla TrpValTyrMet IleTyrGlu·  
 451 TGGCCTGCAT TCATTATTGG GTGTTTAGCT TGGGTATACA TGATTTATGA  
 ·LeuTyrAla GlyGluGlyLys SerAlaCys AsnThrAla SerProSerVal·  
 501 ACTATATGCT GGAGAAGGAA AATCTGCATG TAATACTGCA AGTCCTTCGG  
 · GlnSerAla TyrAsnThr MetMetAlaIle IleValPhe GlyTrpAla  
 551 TTCAATCAGC TTACAACACA ATGATGGCTA TCATAGTCTT CGGTTGGGCA  
 IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·  
 601 ATTTATCCTG TAGGTTATTT CACAGGTTAC CTAATGGGTG ACGGTGGATC  
 ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysIle·  
 651 AGCTCTTAAC TTAAACCTTA TTTATAACCT TGCTGACTTT GTTAACAAGA  
 · LeuPheGly LeuIleIle TrpAsnValAla ValLysGlu SerSerAsn  
 701 TTCTATTTGG TTTAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTAAT  
 Ala  
 751 GCT

Figure 1-9

ThrMetGlyLys LeuLeuLeu IleLeuGly SerValIleAla LeuProThr·  
 1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGTTATTG CACTTCCTAC  
 ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·  
 51 ATTTGCTGCA GGTGGTGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT  
 · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe  
 101 CTTTTTGGTT AGTTACTGCT GCTTTATTAG CATCTACTGT ATTTTCTTT  
 ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·  
 151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC  
 ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·  
 201 TGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAC ATGAGAGGGG  
 · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp  
 251 TATGGATTGA AACTGGTGAT TCGCCAACTG TATTTAGATA CATTGATTGG  
 LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·  
 301 TTACTAACAG TTCCTCTATT AATATGTGAA TTCTACTTAA TTCTTGCTGC  
 ·AlaThrAsn ValAlaAlaGly LeuPheLys LysLeuLeu ValGlySerLeu·  
 351 TGCTACTAAT GTTGCTGCTG GCCTGTTTAA GAAATTATTG GTTGGTTCTC  
 · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAsnAla  
 401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AAGCAGGAAT TATGAACGCT  
 TrpGlyAlaPhe ValIleGly CysLeuAla TrpValTyrMet IleTyrGlu·  
 451 TGGGGTGCAT TCGTTATTGG GTGTTTAGCT TGGGTATACA TGATTTATGA  
 ·LeuTrpLeu GlyGluGlyLys AlaAlaCys AsnThrAla SerProAlaVal·  
 501 GCTTTGGCTT GGAGAAGGAA AAGCTGCGTG TAATACAGCA AGTCCTGCTG  
 · GlnSerAla TyrAsnThr MetMetMetIle IleIlePhe GlyTrpAla  
 551 TTCAGTCAGC TTACAACACA ATGATGATGA TCATCATCTT TGGTTGGGCA  
 IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·  
 601 ATTTATCCTG TAGGTTATTT CACAGGTAC CTAATGGGTG ACGGTGGATC  
 ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysIle·  
 651 AGCACTTAAC TTAAACCTTA TCTATAACCT TGCTGACTTT GTTAACAAGA  
 · LeuPheGly LeuIleIle TrpAsnValAla ValLysGlu SerSerAsn  
 701 TTCTATTTGG TTTAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTAAT  
 Ala  
 751 GCT

Figure 1-10

ThrMetGlyLys LeuLeuLeu IleLeuGly SerValIleAla LeuProThr·  
 1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGTTATTG CACTTCCTAC  
 ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·  
 51 ATTTGCTGCA GGTGGTGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT  
 · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe  
 101 CTTTTTGGTT AGTTACTGCT GCTTTATTAG CATCTACTGT ATTTTCTTT  
 ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·  
 151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC  
 ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·  
 201 TGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAC ATGAGAGGGG  
 · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp  
 251 TATGGATTGA AACTGGTGAT TCGCCAACTG TATTTAGATA CATTGATTGG  
 LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·  
 301 TTACTAACAG TTCCTCTATT AATATGTGAA TTCTACTTAA TTCTTGCTGC  
 ·AlaThrAsn ValAlaAlaGly LeuPheLys LysLeuLeu ValGlySerLeu·  
 351 TGCAACTAAT GTTGCTGCTG GCCTGTTTAA GAAATTATTG GTTGGTCTC  
 · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAsnAla  
 401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AGGCAGGAAT TATGAACGCT  
 TrpGlyAlaPhe ValIleGly CysLeuAla TrpValTyrMet IleTyrGlu·  
 451 TGGGGTGCAT TCGTTATTGG GTGTTTAGCT TGGGTATACA TGATTTATGA  
 ·LeuTrpAla GlyGluGlyLys AlaAlaCys AsnThrAla SerProAlaVal·  
 501 ACTATGGGCT GGAGAAGGCA AGGCTGCATG TAATACTGCA AGTCCTGCTG  
 · GlnSerAla TyrAsnThr MetMetTyrIle IleIlePhe GlyTrpAla  
 551 TGCAATCAGC TTACAACACA ATGATGTATA TAATCATCTT TGGTTGGGCA  
 IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·  
 601 ATTTATCCTG TAGGTTATTT CACAGGTTAC CTAATGGGTG ACGGTGGATC  
 ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysIle·  
 651 AGCTCTTAAC TTAAACCTTA TCTATAACCT TGCTGACTTT GTTAACAAGA  
 · LeuPheGly LeuIleIle TrpAsnValAla ValLysGlu SerSerAsn  
 701 TTCTATTTGG TTTAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTAAT  
 Ala  
 751 GCT

Figure 1-11

```

      ThrMetGlyLys LeuLeuLeu IleLeuGly SerValIleAla LeuProThr·
1  ACCATGGGTA AATTATTACT GATATTAGGT AGTGTTATTG CACTTCCTAC
   ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·
51  ATTTGCTGCA GGTGGCGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT
   · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe
101 CTTTTTGGTT AGTTACAGCT GCTCTATTAG CATCTACTGT ATTTTCTTT
   ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·
151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC
   ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·
201 TGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAC ATGAGAGGGG
   · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp
251 TATGGATTGA AACTGGTGAT TCGCCAACTG TATTTAGATA CATTGATTGG
   LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·
301 TTACTAACAG TTCCTCTATT AATATGTGAA TTCTACTTAA TTCTTGCTGC
   ·AlaThrAsn ValAlaGlySer LeuPheLys LysLeuLeu ValGlySerLeu·
351 TGCTACTAAT GTTGCTGGAT CATTATTTAA GAAATTACTA GTTGGTTCCTC
   · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlnIle MetAlaAla
401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AAGCACAAAT TATGGCTGCA
   TrpProAlaPhe IleIleGly CysLeuAla TrpValTyrMet IleTyrGlu·
451 TGGCCTGCAT TCATTATTGG GTGTTTAGCT TGGGTATACA TGATTTATGA
   ·LeuTyrAla GlyGluGlyLys SerAlaCys AsnThrAla SerProSerVal·
501 ACTATATGCT GGAGAAGGAA AATCTGCATG TAATACTGCA AGTCCTTCGG
   · GlnSerAla TyrAsnThr MetMetAlaIle IleValPhe GlyTrpAla
551 TTCAATCAGC TTACAACACA ATGATGGCTA TCATAGTCTT CGGTGGGGCA
   IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·
601 ATTTATCCTG TAGGTTATTT CACAGGTTAC CTAATGGGTG ACGGTGGGTC
   ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysIle·
651 AGCTCTTAAC TTAAACCTTA TTTATAACCT TGCTGACTTT GTTAACAAGA
   · LeuLeuGly LeuIleIle TrpAsnValAla ValLysGlu SerSerAsn
701 TTCTACTTGG TTTAATTATA TGGAATGTTG CTGTAAAGA ATCTTCTAAT
   Ala
751 GCT

```

Figure 1-12

ThrMetGlyLys LeuLeuLeu IleLeuGly SerValIleAla LeuProThr·  
 1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGTTATTG CACTTCCTAC  
 ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·  
 51 ATTTGCTGCA GGTGGTGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT  
 · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe  
 101 CTTTTTGGTT AGTTACTGCT GCTTTATTAG CATCTACTGT ATTTTCTTT  
 ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·  
 151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC  
 ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·  
 201 TGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAC ATGAGAGGGG  
 · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp  
 251 TATGGATTGA AACTGGTGAT TCGCCAACTG TATTTAGATA CATTGATTGG  
 LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·  
 301 TTACTAACAG TTCCTCTATT AATATGTGAA TTCTACTTAA TTCTTGCTGC  
 ·AlaAlaAsn ValAlaGlySer LeuPheLys LysLeuLeu ValGlySerLeu·  
 351 TGCAGCTAAT GTTGCTGGAT CATTATTTAA GAAATTACTA GTTGTTCTC  
 · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAlaAla  
 401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AAGCAGGAAT CATGGCTGCA  
 TrpProAlaPhe IleIleGly CysLeuAla TrpValTyrMet IleTyrGlu·  
 451 TGGCCTGCAT TCATTATTGG GTGTTTAGCT TGGGTATACA TGATTTATGA  
 ·LeuTrpAla GlyGluGlyLys SerAlaCys AsnThrAla SerProAlaVal·  
 501 ATTATGGGCT GGAGAAGGAA AATCTGCATG TAATACTGCA AGTCCTGCTG  
 · GlnSerAla TyrAsnThr MetMetTyrIle IleIlePhe GlyTrpAla  
 551 TGCAATCAGC CTACAACACA ATGATGTATA TTATCATCTT TGGTTGGGCG  
 IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·  
 601 ATTTATCCTG TAGGTTATTT CACAGGTTAC TTGATGGGTG ACGGTGGATC  
 ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysIle·  
 651 AGCTCTTAAC TTAAACCTTA TCTATAACCT TGCTGACTTT GTTAACAAGA  
 · LeuPheGly LeuIleIle TrpAsnValAla ValLysGlu SerSer  
 701 TTCTATTTGG TTTAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTA

Figure 1-13

ThrMetGlyLys LeuLeuLeu IleIleGly SerValIleAla LeuProThr·  
 1 ACCATGGGTA AATTATTACT GATAATAGGT AGTGTTATTG CACTTCCTAC  
 ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·  
 51 ATTTGCTGCA GGTGGCGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT  
 · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe  
 101 CTTTTTGGTT AGTTACAGCT GCTCTATTAG CATCTACTGT ATTTTTCTTT  
 ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·  
 151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC  
 ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·  
 201 TGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAC ATGAGAGGAG  
 · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp  
 251 TATGGATTGA AACTGGTGAT TCGCCAACCTG TATTTAGATA CATTGATTGG  
 LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·  
 301 TTACTAACAG TTCCTTTATT AATATGTGAA TTCTACTTAA TTCTTGCTGC  
 ·AlaThrAsn ValAlaGlySer LeuPheLys LysLeuLeu ValGlySerLeu·  
 351 TGCAACTAAT GTTGCCGGCT CATTATTTAA GAAACTTCTA GTTGGTTCTC  
 · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAlaAla  
 401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AAGCAGGAAT TATGGCAGCT  
 TrpProAlaPhe IleIleGly CysLeuAla TrpValTyrMet IleTyrGlu·  
 451 TGGCCTGCAT TCATTATTGG GTGTTTAGCT TGGGTATATA TGATTTATGA  
 ·LeuTyrAla GlyGluGlyLys SerAlaCys AsnThrAla SerProAlaVal·  
 501 ACTATATGCT GGAGAAGGAA AATCTGCATG TAATACAGCA AGTCCTGCTG  
 · GlnSerAla TyrAsnThr MetMetTyrIle IleValPhe GlyTrpAla  
 551 TGCAATCAGC TTACAACACA ATGATGTATA TTATCGTCTT TGGTTGGGCG  
 IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·  
 601 ATTTATCCTG TAGGTTATTT CACAGGTTAC CTGATGGGTG ACGGTGGATC  
 ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysIle·  
 651 AGCTCTTAAC TTAAACCTTA TCTATAACCT TGCTGACTTT GTTAACAAGA  
 · LeuPheGly LeuIleIle TrpAsnValAla ValLysGlu SerSerAsn  
 701 TTCTATTTGG TTTAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTAAT  
 Ala  
 751 GCT

Figure 1-14

ThrMetGlyLys LeuLeuLeu IleLeuGly SerValIleAla LeuProThr·  
 1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGTTATTG CACTTCCTAC  
 ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·  
 51 ATTTGCTGCA GGTGGTGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT  
 · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe  
 101 CTTTTTGGTT AGTTACTGCT GCTCTATTAG CATCTACTGT ATTTTTCTTT  
 ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·  
 151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC  
 ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·  
 201 GGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAC ATGAGAGGGG  
 · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp  
 251 TATGGATTGA GACTGGTGAT TCGCCAACCTG TATTTAGATA CATTGATTGG  
 LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·  
 301 TTAATAACAG TTCCTCTATT GATATGTGAA TTCTACTTAA TTCTTGCTGC  
 ·AlaThrAsn ValAlaAlaGly LeuPheLys LysLeuLeu ValGlySerLeu·  
 351 TGCAACAAAT GTTGCTGCTG GCCTGTTTAA GAAATTATTG GTTGGTTCTC  
 · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAsnAla  
 401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AGGCAGGAAT TATGAACGCT  
 TrpGlyAlaPhe ValIleGly CysLeuAla TrpValTyrMet IleTyrGlu·  
 451 TGGGGTGCAT TCGTTATTGG GTGTTTAGCT TGGGTATACA TGATTTATGA  
 ·LeuTrpAla GlyGluGlyLys AlaAlaCys AsnThrAla SerProAlaVal·  
 501 ACTATGGGCT GGAGAAGGCA AGGCTGCATG TAATACTGCA AGTCCTGCTG  
 · GlnSerAla TyrAsnThr MetMetTyrIle IleIlePhe GlyTrpAla  
 551 TGCAATCAGC TTACAACACA ATGATGTATA TAATCATCTT TGGTTGGGCA  
 IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·  
 601 ATTTATCCTG TAGGTTATTT CACAGGTTAC CTAATGGGTG ACGGTGGATC  
 ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysAsn·  
 651 AGCTCTTAAC TTAAACCTTA TCTATAACCT TGCTGACTTT GTTAACAAGA  
 · LeuPheGly LeuIleIle TrpAsnValAla ValLysGlu SerSer  
 701 ATCTATTTGG TTTAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTA

Figure 1-15

ThrMetGlyLys LeuLeuArg IleLeuGly SerValIleAla LeuProThr·  
 1 ACCATGGGTA AATTATTACG GATATTAGGT AGTGTTATTG CACTTCCTAC  
 ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·  
 51 ATTTGCTGCA GGTGGCGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT  
 · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe  
 101 CTTTTTGGTT AGTTACAGCT GCTCTATTAG CATCTACTGT ATTTTCTTT  
 ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·  
 151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC  
 ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·  
 201 TGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAT ATGAGAGGAG  
 · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp  
 251 TATGGATTGA AACTGGTGAT TCGCCAACTG TATTTAGATA CATTGATTGG  
 LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·  
 301 TTACTAACAG TTCCTTTATT AATATGTGAA TTCTACTTAA TTCTTGCTGC  
 ·AlaThrAsn ValAlaGlySer LeuPheLys LysLeuLeu ValGlySerLeu·  
 351 TGCAACTAAT GTTGCTGGAT CATTATTTAA GAAATTACTA GTTGGTTCTC  
 · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAlaAla  
 401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AAGCAGGAAT CATGGCTGCA  
 TrpProAlaPhe IleIleGly CysLeuAla TrpValTyrMet IleTyrGlu·  
 451 TGGCCTGCAT TCATTATTGG GTGTTTAGCT TGGGTATACA TGATTTATGA  
 ·LeuTrpAla GlyGluGlyLys SerAlaCys AsnThrAla SerProAlaVal·  
 501 ACTATGGGCT GGAGAAGGAA AATCTGCATG TAATACTGCA AGTCCTGCTG  
 · GlnSerAla TyrAsnThr MetMetTyrIle IleIleVal GlyTrpAla  
 551 TGCAATCAGC TTACAACACA ATGATGTATA TCATCATCGT TGGTTGGGCG  
 IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·  
 601 ATTTATCCTG TAGGTTATTT CACAGGTTAC CTGATGGGTG ACGGTGGATC  
 ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysIle·  
 651 AGCTCTTAAC TTAAACCTTA TCTATAACCT TGCTGACTTT GTTAACAAGA  
 · LeuPheGly LeuIleIle TrpAsnValAla ValLysGlu SerSerAsn  
 701 TTCTATTTGG TTTAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTAAT  
 Ala  
 751 GCT

Figure 1-16



ThrMetGlyLys LeuLeuLeu IleLeuGly SerValIleAla LeuProThr·  
 1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGTTATTG CACTTCCTAC  
 ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·  
 51 ATTTGCTGCA GGTGGCGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT  
 · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe  
 101 CTTTTTGGTT AGTTACAGCT GCTCTATTAG CATCTACTGT ATTTTCTTT  
 ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·  
 151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC  
 ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·  
 201 TGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAC ATGAGAGGAG  
 · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp  
 251 TATGGATTGA AACTGGTGAT TCGCCAACTG TATTTAGATA CATTGATTGG  
 LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·  
 301 TTACTAACAG TTCCTTTATT AATATGTGAA TTCTACTTAA TTCTTGCTGC  
 ·AlaThrAsn ValAlaGlySer LeuPheLys LysLeuLeu ValGlySerLeu·  
 351 TGCAACTAAT GTTGCCGGCT CATTATTTAA GAAACTTCTA GTTGTTCTC  
 · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAlaAla  
 401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AAGCAGGAAT TATGGCAGCT  
 TrpProAlaPhe IleIleGly CysLeuAla TrpValTyrMet IleTyrGlu·  
 451 TGGCCTGCAT TCATTATTGG GTGTTTAGCT TGGGTATACA TGATTTATGA  
 ·LeuTyrAla GlyGluGlyLys SerAlaCys AsnThrAla SerProSerVal·  
 501 ACTATATGCT GGAGAAGGAA AATCTGCATG TAATACTGCA AGTCCTTCGG  
 · GlnSerAla TyrAsnThr MetMetAlaIle IleValPhe GlyTrpAla  
 551 TTCAATCAGC TTACAACACA ATGATGGCTA TCATAGTCTT CGGTTGGGCA  
 IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·  
 601 ATTTATCCTG TAGGTTATTT CACAGGTTAC CTAATGGGTG ACGGTGGATC  
 ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysIle·  
 651 AGCTCTTAAC TTAAACCTTA TTTATAACCT TGCTGACTTT GTTAACAAGA  
 · LeuPheGly LeuIleIle TrpAsnValAla ValLysGlu SerSerAsn  
 701 TTCTATTTGG TTTAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTAAT  
 Ala  
 751 GCT

Figure 1-17

ThrMetGlyLys LeuLeuLeu IleLeuGly SerValIleAla LeuProThr·  
 1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGTTATTG CACTTCCTAC  
 ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·  
 51 ATTTGCTGCA GGTGGTGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT  
 · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe  
 101 CTTTTTGGTT AGTTACTGCT GCTTTATTAG CATCTACTGT ATTTTTCTTT  
 ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·  
 151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC  
 ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·  
 201 TGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAC ATGAGAGGGG  
 · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp  
 251 TATGGATTGA AACTGGTGAT TCGCCAACTG TATTTAGATA CATTGATTGG  
 LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·  
 301 TTACTAACAG TTCCTCTATT AATATGTGAA TTCTACTTAA TTCTTGCTGC  
 ·AlaThrAsn ValAlaGlySer LeuPheLys LysLeuLeu ValGlySerLeu·  
 351 TGCTACTAAT GTTGCCGGCT CATTATTTAA GAAACTTCTA GTTGGTTCTC  
 · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAlaAla  
 401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AAGCAGGAAT TATGGCAGCT  
 TrpProAlaPhe IleIleGly CysLeuAla TrpValTyrMet IleTyrGlu·  
 451 TGGCCTGCAT TCATTATTGG GTGTTTAGCT TGGGTATACA TGATTTATGA  
 ·LeuTyrAla GlyGluGlyLys SerAlaCys AsnThrAla SerProSerVal·  
 501 ACTATATGCT GGAGAAGGAA AATCTGCATG TAATACTGCA AGTCCTTCGG  
 · GlnSerAla TyrAsnThr MetMetAlaIle IleValPhe GlyTrpAla  
 551 TTCAATCAGC TTACAACACA ATGATGGCTA TCATAGTCTT CGGTGTTGGCA  
 IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·  
 601 ATTTATCCTG TAGGTTATTT CACAGGTAC CTAATGGGTG ACGGTGGATC  
 ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysIle·  
 651 AGCTCTTAAC TTAAACCTTA TTTATAACCT TGCTGACTTT GTTAACAAGA  
 · LeuPheGly LeuIleIle TrpAsnAlaAla ValLysGlu SerSerAsn  
 701 TTCTATTTGG TTTAATTATA TGGAATGCTG CTGTTAAAGA ATCTTCTAAT  
 Ala  
 751 GCT

Figure 1-18

```

      ThrMetGlyLys LeuLeuLeu IleLeuGly SerValIleAla LeuProThr·
1  ACCATGGGTA AATTATTACT GATATTAGGT AGTGTTATTG CACTTCCTAC
   ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·
51  ATTTGCTGCA GGTGGTGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT
   · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe
101  CTTTTTGGTT AGTTACTGCT GCTTTATTAG CATCTACTGT ATTTTCTTTT
   ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·
151  GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC
   ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·
201  TGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAT ATGAGAGGGG
   · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp
251  TATGGATTGA AACTGGTGAT TCGCCAACTG TATTTAGATA CATAGATTGG
   LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·
301  TTACTAACAG TTCCTTTATT AATATGTGAA TTCTACTTAA TTCTTGCCGC
   ·AlaThrAsn ValAlaGlySer LeuPheLys LysLeuLeu ValGlySerLeu·
351  TGCAACTAAT GTTGCTGGAT CATTATTTAA GAAATTACTT GTTGGTTCTC
   · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAlaAla
401  TTGTTATGCT TGTGTTTGGT TACATGGGTG AAGCAGGAAT CATGGCTGCA
   TrpProAlaPhe IleIleGly CysLeuAla TrpValTyrMet IleTyrGlu·
451  TGGCCTGCAT TCATTATTGG GTGTTTAGCT TGGGTATACA TGATTTATGA
   ·LeuTrpAla GlyGluGlyLys SerAlaCys AsnThrAla SerProAlaVal·
501  ACTATGGGCT GGAGAAGGAA AATCTGCATG TAATACTGCA AGTCCTGCTG
   · GlnSerAla TyrAsnThr MetMetTyrIle IleIlePhe GlyTrpAla
551  TGCAATCAGC TTACAACACA ATGATGTATA TCATCATCTT TGGTTGGGCG
   IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·
601  ATTTATCCTG TAGGTTATTT CACAGGTAC CTTATGGGTG ACGGTGGATC
   ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysIle·
651  AGCACTTAAC TTAAACCTTA TTTATAACCT TGCTGACTTT GTTAACAAGA
   · LeuPheGly LeuIleIle TrpAsnValAla ValLysGlu SerSerAsn
701  TTCTATTTGG TTTAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTAAT
   Ala
751  GCT

```

Figure 1-19

ThrMetGlyLys LeuLeuLeu IleLeuGly SerValIleAla LeuProThr·  
 1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGTTATTG CACTTCCTAC  
 ·PheAlaAla GlyGlyGlyAsp LeuAspAla SerAspTyr ThrGlyValSer·  
 51 ATTTGCTGCA GGTGGCGGTG ACCTTGATGC TAGTGATTAC ACTGGTGTTT  
 · PheTrpLeu ValThrAla AlaLeuLeuAla SerThrVal PhePhePhe  
 101 CTTTTTGGTT AGTTACAGCT GCTCTATTAG CGTCTACTGT ATTTTTCTTT  
 ValGluArgAsp ArgValSer AlaLysTrp LysThrSerLeu ThrValSer·  
 151 GTTGAAAGAG ATAGAGTTTC TGCAAAATGG AAAACATCAT TAACTGTATC  
 ·GlyLeuVal ThrGlyIleAla PheTrpHis TyrMetTyr MetArgGlyVal·  
 201 TGGTCTTGTT ACTGGTATTG CTTTCTGGCA TTACATGTAT ATGAGAGGAG  
 · TrpIleGlu ThrGlyAsp SerProThrVal PheArgTyr IleAspTrp  
 251 TATGGATTGA AACTGGTGAT TCGCCAACTG TATTTAGATA CATTGATTGG  
 LeuLeuThrVal ProLeuLeu IleCysGlu PheTyrLeuIle LeuAlaAla·  
 301 TTACTAACAG TTCCTTTATT AATATGTGAA TTCTACTTAA TTCTTGCTGC  
 ·AlaThrAsn ValAlaGlySer LeuPheLys LysLeuLeu ValGlySerLeu·  
 351 TGCAACTAAT GTTGCCGGCT CATTATTTAA GAAACTTCTA GTTGGTTCTC  
 · ValMetLeu ValPheGly TyrMetGlyGlu AlaGlyIle MetAlaAla  
 401 TTGTTATGCT TGTGTTTGGT TACATGGGTG AAGCAGGAAT AATGGCGGCT  
 TrpProAlaPhe IleValGly CysLeuAla TrpValTyrMet IleTyrGlu·  
 451 TGGCCTGCAT TCATCGTTGG ATGTTTAGCA TGGGTATATA TGATTTATGA  
 ·LeuTrpAla GlyGluGlyLys SerAlaCys AsnThrAla SerProAlaVal·  
 501 ACTATGGGCT GGTGAAGGAA AATCTGCATG TAATACTGCA AGTCCTGCTG  
 · GlnSerAla TyrAsnThr MetMetTyrIle IleIleVal GlyTrpAla  
 551 TACAGTCAGC TTACAACACA ATGATGTATA TCATCATCGT TGGTTGGGCA  
 IleTyrProVal GlyTyrPhe ThrGlyTyr LeuMetGlyAsp GlyGlySer·  
 601 ATTTATCCTG TAGGTTATTT CACAGGTTAC CTAATGGGTG ACGGTGGATC  
 ·AlaLeuAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe ValAsnLysIle·  
 651 AGCTCTTAAT CTAAACCTTA TTTATAACCT TGCTGACTTT GTTAACAAGA  
 · LeuPheGly LeuIleIle TrpAsnValAla ValLysGlu SerSerAsn  
 701 TTCTATTTGG TTTAATTATA TGGAATGTTG CTGTTAAAGA ATCTTCTAAT  
 Ala  
 751 GCT

Figure 1-20

ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·  
 1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC  
 ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·  
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT  
 · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe  
 101 CATTCTGGCT GGTACAGCT GGTATGTTAG CGGCAACTGT ATTCTTTTTT  
 ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu ThrValSer·  
 151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTAGTGTATC  
 ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·  
 201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAC ATGAGAGGTG  
 · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp  
 251 TTTGGATAGA TACTGGTGAT ACACCAACAG TATTTAGATA TATTGATTGG  
 LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·  
 301 CTATTAAGT TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC  
 ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·  
 351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT  
 · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal  
 401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGTTT AGCTCCTGTA  
 LeuProAlaPhe IleLeuGly MetAlaGly TrpLeuTyrMet IleTyrGlu·  
 451 TTACCTGCTT TCATTCTTGG TATGGCTGGT TGGTTATACA TGATTTATGA  
 ·LeuHisMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·  
 501 GCTACATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG  
 · AsnSerAla TyrAsnAla MetMetLysIle IleValIle GlyTrpAla  
 551 TTAAGTCTGC TTACAATGCA ATGATGAAGA TTATTGTTAT TGGATGGGCA  
 IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetSerGly AspGlyVal·  
 601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGAGTG GTGACGGTGT  
 ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp PheValAsnLys·  
 651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCTGAC TTTGTTAACA  
 · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer  
 701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTAA AGAATCTTCT  
 AsnAla  
 751 AATGCT

Figure 1-21

ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·  
 1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC  
 ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·  
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT  
 · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe  
 101 CATTCTGGCT GGTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT  
 ValGluArgAsp GlnValSer AlaGluTrp LysThrSerLeu ThrValSer·  
 151 GTAGAAAGAG ACCAAGTCAG CGCTGAGTGG AAAACTTCAC TTACTGTATC  
 ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·  
 201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAT ATGAGAGGTG  
 · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp  
 251 TTTGGATAGA TACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG  
 LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·  
 301 TTATTAAGT TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC  
 ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·  
 351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT  
 · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal  
 401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA  
 LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·  
 451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGTTTATACA TGATTTATGA  
 ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·  
 501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG  
 · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla  
 551 TTAAGTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA  
 IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·  
 601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT  
 ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp PheValAsnLys·  
 651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCTGAC TTTGTTAACA  
 · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer  
 701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTTAA AGAATCTTCT  
 AsnAla  
 751 AATGCT

Figure 1-22

```

      ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
1  ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
   ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
   · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101 CATTCTGGCT GGTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT
   ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu ThrValSer·
151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTAGTGATC
   ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·
201 TGGTTTAATT ACTGGTATAG CCTTTTGGCA TTATCTCTAT ATGAGAGGTG
   · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp
251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG
   LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
301 TTATTAAGTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC
   ·CysThrAsn ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351 TTGTACAAAT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
   · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA
   TrpProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451 TGGCCTGCTT TCATTATTGG TATGGCTGGA TGTTTATACA TGATTTATGA
   ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
   · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla
551 TTAAGTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA
   IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·
601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT
   ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp PheValAsnLys·
651 ATACGCTTCA AACCTAAACC TTATATATAA CCTTGCTGAC TTTGTTAACA
   · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTAA AGAATCTTCT
   AsnAla
751 AATGCT

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Figure 1-23

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      ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
1  ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CGCTTCCATC
   ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
51  ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
   · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101  CATTCTGGCT GGTACGGCT GGTATGTTAG CGGCAACTGT ATTCTTTTTT
   ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu ThrValSer·
151  GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTAGTGATC
   ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·
201  TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAC ATGAGAGGTG
   · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp
251  TTTGGATAGA TACTGGTGAT ACACCAACAG TATTTAGATA TATTGATTGG
   LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
301  TTATTAAGTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCCGC
   ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351  TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
   · ValMetLeu GlyAlaGly SerAlaGlyGlu AlaGlyLeu AlaProVal
401  TGGTAATGTT AGGTGCTGGA TCTGCAGGCG AAGCTGGATT AGCTCCTGTA
   LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451  TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA
   ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501  GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
   · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla
551  TTAAGTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA
   IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·
601  ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT
   ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp PheValAsnLys·
651  ATACGCTTCA AACTTAAACC TCATATATAA CCTTGCTGAC TTTGTTAACA
   · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701  AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTAA AGAATCTTCT
   AsnAla
751  AATGCT

```

Figure 1-24



ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·  
 1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC  
 ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·  
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT  
 · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe  
 101 CATTCTGGCT GGTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT  
 ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu ThrValSer·  
 151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTAGTGTATC  
 ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·  
 201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAT ATGAGAGGTG  
 · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp  
 251 TTTGGATAGA CACTGGTGAT ACCCAACAG TATTCAGATA TATTGATTGG  
 LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·  
 301 TTATTAAGTGT TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC  
 ·CysThrAsn ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·  
 351 TTGTACAAAT GTTGCTGCTT CATTATTAA GAAGCTTCTA GCTGGTTCAT  
 · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal  
 401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA  
 TrpProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·  
 451 TGGCCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA  
 ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·  
 501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG  
 · AsnSerAla TyrAsnAla MetMetValIle IleValVal GlyTrpAla  
 551 TTAAGTCTGC ATACAACGCA ATGATGGTGA TTATTGTTGT TGGATGGGCA  
 IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·  
 601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT  
 ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp PheValAsnLys·  
 651 ATACGCTTCA AACCTAAACC TTATATATAA CCTTGCTGAC TTTGTAAACA  
 · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer  
 701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTAA AGAATCTTCT  
 AsnAla  
 751 AATGCT

Figure 1-25

ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·  
 1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC  
 ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·  
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT  
 · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe  
 101 CATTCTGGCT GGTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT  
 ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu ThrValSer·  
 151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTAGTGTATC  
 ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·  
 201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAT ATGAGAGGTG  
 · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp  
 251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG  
 LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·  
 301 TTATTAAGTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC  
 ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·  
 351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT  
 · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal  
 401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA  
 LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·  
 451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGTTTATACA TGATTTATGA  
 ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·  
 501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG  
 · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla  
 551 TTAAGTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA  
 IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·  
 601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT  
 ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp LeuValAsnLys·  
 651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCTGAC CTTGTTAACA  
 · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer  
 701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTAA AGAATCTTCT  
 AsnAla  
 751 AATGCT

Figure 1-26

ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·  
 1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC  
 ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·  
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT  
 · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe  
 101 CATTCTGGCT GGTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT  
 ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu ThrValSer·  
 151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTAGTGATC  
 ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·  
 201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAT ATGAGAGGTG  
 · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp  
 251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG  
 LeuLeuThrVal ProLeuGln ValValGlu PheTyrLeuIle LeuAlaAla·  
 301 TTATTAAGT TTCCATTACA AGTGGTTGAG TTCTATCTAA TTCTTGCTGC  
 ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·  
 351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT  
 · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal  
 401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA  
 LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·  
 451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA  
 ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·  
 501 GCTATATATG GGTGAAGGCA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG  
 · AsnProAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla  
 551 TTAACCTGCT ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA  
 IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·  
 601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT  
 ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp PheValAsnLys·  
 651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCTGAC TTTGTTAACA  
 · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer  
 701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTAA AGAATCTTCT  
 AsnAla  
 751 AATGCT

Figure 1-27

ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·  
 1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC  
 ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·  
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT  
 · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe  
 101 CATTCTGGCT GGTTACAGCT GGTATGTTAG CGGCAACTGT ATTCTTTTTT  
 ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu ThrValSer·  
 151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTAGTGATC  
 ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·  
 201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAC ATGAGAGGTG  
 · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp  
 251 TTTGGATAGA TACTGGTGAT ACACCAACAG TATTTAGATA TATTGATTGG  
 LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·  
 301 TTATTAAGT TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC  
 ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·  
 351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT  
 · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal  
 401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGTTT AGCTCCTGTA  
 LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·  
 451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA  
 ·LeuHisMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·  
 501 GCTACATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG  
 · AsnSerAla TyrAsnAla MetMetLysIle IleValIle GlyTrpAla  
 551 TTAAGTCTGC ATACAACGCA ATGATGAAGA TTATTGTTAT TGGATGGGCA  
 IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetSerGly AspGlyVal·  
 601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGAGTG GTGACGGTGT  
 ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp PheValAsnLys·  
 651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCTGAC TTTGTTAACA  
 · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer  
 701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTAA AGAATCTTCT  
 AsnAla  
 751 AATGCT

Figure 1-28

ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·  
 1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC  
 ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·  
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT  
 · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe  
 101 CATTCTGGCT GGTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT  
 ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu ThrValSer·  
 151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTAGTGATC  
 ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·  
 201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAT ATGAGAGGTG  
 · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp  
 251 TTTGGATAGA TACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG  
 LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·  
 301 TTATTAAGTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC  
 ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·  
 351 TTGTACAAGT GTTGCTGCTT CATTATTAA GAAGCTTCTA GCTGGTTCAT  
 · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal  
 401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA  
 LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·  
 451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGCTATACA TGATTTATGA  
 ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·  
 501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG  
 · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla  
 551 TTAAGTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA  
 IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·  
 601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGCGT  
 ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp PheValAsnLys·  
 651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCTGAC TTTGTAAACA  
 · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer  
 701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTTAA AGAATCTTCT  
 AsnAla  
 751 AATGCT

Figure 1-29

MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·  
 1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATCGCGC TTCCAACATT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCTGCTGGC GGTGGCGATC TTGATGCTAG TGACTIONACT GGTGTTTCAT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
 101 TCTGGTTAGT TACTGCTGCT CTATTAGCGT CTACTGTATT CTTCTTTGTT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGATA GAGTGTCTGC AAAATGGAAA ACTTCATTAA CAGTATCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TTTAGTTACT GGTATTGCTT TTTGGCATTATATGTACATG AGAGGTGTAT  
 · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATAGAAAC TGGTGATTCTG CCTACTGTCT TTAGATACAT CGACTGGTTA  
 LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 TTAAGTGTGC CTTTACTAAT ATGTGAGTTC TATCTGATAC TTGCTGCAGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 TACTAATGTT GCTGGTTCAT TATTTAAGAA ATTGCTAGTT GGTCTCTCTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TGATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATAAT GGCAGCTTGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TCATTGGATG TTTAGCATGG GTATATATGA TTTATGAACT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGT GAAGGAAAAT CTGCATGCAA TACTGCAAGT CCTGCTGTAC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IleValGly TrpAlaIle  
 551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCGTTGG TTGGGCAATT  
 TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TATCCTGTAG GTTATTTTAC AGGTTACCTA ATGGGTGACG GTGGATCAGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 TCTTAATCTA AACCTTATTT ATAACCTTGC TGACTIONTGT AACAAGATTC  
 · PheGlyLeu IleIleTrp AsnValAlaVal LysLysSer SerAsnAla  
 701 TATTGGTTT AATTATATGG AATGTTGCTG TTAAAAAATC TTCTAATGCT  
 751 A

Figure 1-30

MetGlyLysLeu LeuLeuIle LeuGlyAsn ValIleAlaLeu ProThrPhe·  
1 ATGGGTAAAT TATTACTGAT ATTAGGTAAT GTTATCGCGC TTCCAACATT  
·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
51 TGCTGCTGGC GGTGGCGATC TTGATGCTAG TGACTIONACT GGTGTTTCAT  
· TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
101 TCTGGTTAGT TACTGCTGCT CTATTAGCGT CTACTGTATT CTCTTTGT  
GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
151 GAAAGAGATA GAGTGTCTGC AAAATGGAAA ACTTCATTAA CAGTATCTGG  
·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
201 TTTAGTTACT GGTATTGCTT TTTGGCATTATATGTACATG AGAGGTGTAT  
· IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu  
251 GGATAGAAAC TGGTGATTCTG CCTACTGTCT TTAGATACAT CGACTGGTTA  
LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
301 TTAAGTGTGC CTTTACTAAT ATGTGAGTTC TATCTGATAC TTGCTGCAGC  
·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
351 TACTAATGTT GCTGGTTCAT TATTTAAGAA ATTGCTAGTT GGTCTCTCTG  
· MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
401 TGATGCTTGT GTTCGGTTAC ATGGGTGAAG CAGGAATAAT GGCAGCTTGG  
ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
451 CCTGCATTCA TCATTGGGTG TTTAGCATGG GTATATATGA TTTATGAGCT  
·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
501 ATGGGCTGGT GAAGGAAAAT CTGCATGTAA TACTGCAAGT CCTGCTGTAC  
· SerAlaTyr AsnThrMet MetTyrIleIle IleValGly TrpAlaIle  
551 AGTCAGCTTA CAACACTATG ATGTATATTA TCATTGTTGG TTGGGCGATT  
TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
601 TATCCTGTAG GCTATTTTAC TGGTTACCTC ATGGGTGACG GTGGATCAGC  
·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
651 TCTTAATTTA AACCTTATTT ATAACCTTGC TGACTIONTGT AACAAGATTC  
· PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
701 TATTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT  
751 A

Figure 1-31

MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·  
 1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCGC TTCCAACATT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCCGCTGGC GGTGGCGATC TTGATGCTAG TGACTIONACT GGTGTTTCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
 101 TCTGGTTAGT TACTGCTGCT CTATTAGCAT CTACTGTATT CTTCTTTGTT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGGGATA GAGTATCTGC AAAATGGAAA ACTTCATTAA CAGTATCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TTTAGTTACT GGTATTGCTT TTTGGCATTATATGTACATG AGAGGTGTAT  
 · IleGluThr GlySerSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATAGAAAC TGGTAGTTCA CCTACTGTCT TTAGATACAT TGACTIONGCTA  
 LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 TTAACAGTGC CTTTACTAAT ATGTGAGTTC TATTTAATAC TTGCCGACG  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 TACTAATGTT GCTGGTTCAT TATTTAAGAA ATTGCTAGTT GGTCTCTTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TGATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATAAT GGCAGCTTGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TCATTGGATG TTTAGCATGG GTATATATGA TTTATGAGCT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGT GAAGGAAAAT CTGCATGTAA TACTGCAAGT CCTGCTGTAC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IleAlaGly TrpAlaIle  
 551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCGCTGG TTGGGCAATT  
 TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TATCCTGTAG GTTATTTTAC AGGTTACCTA ATGGGTGACG GTGGATCAGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 TCTTAATCTA AACCTTATTT ATAACCTTGC TGACTIONTGTT AACAAGATTC  
 · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
 701 TATTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT  
 751 A

Figure 1-32



MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·  
 1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATCGCGC TTCCAACATT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCTGCTGGC GGTGGCGATC TTGATGCTAG TGACTIONACT GGTGTTTCAT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
 101 TCTGGTTAGT TACTGCTGCT CTATTAGCGT CTACTGTATT CTTCTTTGTT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGATA GAGTGTCTGC AAAATGGAAA ACTTCATTAA CAGTATCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TTTAGTTACT GGTATTGCTT TTTGGCATTATATGTACATG AGAGGTGTAT  
 · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATAGAAAC TGGTGATTCTG CCTACTGTCT TTAGATACAT CGACTGGTTA  
 LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 TTAAGTGTGC CTTTACTAAT ATGTGAGTTC TATCTGATAC TTGCTGCAGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 TACTAATGTT GCTGGTTCAT TATTTAAGAA ATTGCTAGTT GGTCTCTCTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TGATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATAAT GGCAGCTTGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TCATTGGATG TTTAGCATGG GTATATATGA TTTATGAACT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGT GAAGGAAAAT CTGCATGCAA TACTGCAAGT CCTGCTGTAC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IleValGly TrpAlaIle  
 551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCGTTGG TTGGGCAATT  
 TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TATCCTGTAG GTTATTTTAC AGGTTACCTA ATGGGTGACG GTGGATCAGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 TCTTAATCTA AACCTTATTT ATAACCTTGC TGACTIONTGT AACAAGATTC  
 · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT  
 751 A

Figure 1-33

MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·  
 1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATCGCGC TTCCAACATT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCTGCTGGC GGTGGCGATC TTGATGCTAG TGACTIONACT GGTGTTTCAT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
 101 TCTGGTTAGT TACTGCTGCT CTATTAGCGT CTACTGTATT CTTCTTTGTT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGATA GAGTGTCTGC AAAATGGAAA ACTTCATTAA CAGTATCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TTTAGTTACT GGTATTGCTT TTTGGCATTATATGTACATG AGAGGTGTAT  
 · IleGluThr GlySerSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATAGAAAC TGGTAGTTCA CCTACTGTCT TTAGATACAT TGACTIONGCTA  
 LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 TTAACAGTGC CTTTACTAAT ATGTGAGTTC TATTTAATAC TTGCCGCAGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 TACTAATGTT GCTGGTTCAT TATTTAAGAA ATTGCTAGTT GGTCTCTCTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TTATGCTTGT GTTCGGTTAC ATGGGTGAAG CAGGAATAAT GGCAGCTTGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TCATTGGGTG TTTAGCATGG GTATATATGA TTTATGAGCT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGT GAAGGAAAAT CTGCATGTAA TACTGCAAGT CCTGCTGTAC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IleAlaGly TrpAlaIle  
 551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCGCTGG TTGGGCAATT  
 TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TATCCTGTAG GTTATTTTAC AGGTTACCTA ATGGGTGACG GTGGATCAGC  
 ·LeuAsnLeu AsnLeuAsnTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 TCTTAATCTA AACCTTAATT ATAACCTTGC TGACTIONTGT AACAAGATTC  
 · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT  
 751 A

Figure 1-34

MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·  
 1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATCGCGC TTCCAACATT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCTGCTGGC GGTGGCGATC TTGATGCTAG TGA CTATACT GGTGTTTCAT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
 101 TCTGGTTAGT TACTGCTGCT CTATTAGCGT CTACTGTATT CTTCTTTGTT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGATA GAGTGTCTGC AAAATGGAAA ACTTCATTAA CAGTATCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TTTAGTTACT GGTATTGCTT TTTGGCATT TATGTACATG AGAGGTGTAT  
 · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATAGAAAC TGGTGATTTCG CCTACTGTCT TTAGATACAT AGACTGGTTA  
 LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 TTAAGTGTGC CTTTACTAAT ATGTGAGTTC TATCTGATAC TTGCTGCAGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 TACTAATGTT GCTGGTTCAT TATTTAAGAA ATTGCTAGTT GGTCTCTCTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TGATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATAAT GGCAGCTTGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TCATTGGATG TTTAGCATGG GTATATATGA TTTATGAACT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGT GAAGGAAAAT CTGCATGCAA TACTGCAAGT CCTGCTGTAC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IleValGly TrpAlaIle  
 551 AATCAGCTTA CAACACAATG ATGTATATCA TCATCGTTGG TTGGGCAATT  
 TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TATCCTGTAG GTTATTTTAC AGGTTACCTA ATGGGTGACG GTGGATCAGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 TCTTAATCTA AACCTTATTT ATAACCTTGC TGA CTTTGT TAAAGATTC  
 · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT  
 751 A

Figure 1-35

MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·  
 1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCGC TTCCAACATT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCCGCTGGC GGTGGCGATC TTGATGCTAG TGACTIONACT GGTGTTTCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
 101 TCTGGTTAGT TACTGCTGCT CTATTAGCAT CTACTGTATT CTTCTTTGTT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGGGATA GAGTATCTGC AAAATGGAAA ACTTCATTAA CAGTATCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TTTAGTTACT GGTATTGCTT TTTGGCATTATATGTACATG AGAGGTGTAT  
 · IleGluThr GlySerSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATAGAAAC TGGTAGTTCA CCTACTGTCT TTAGATACAT TGACTIONGCTA  
 LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 TTAACAGTGC CTTTACTAAT ATGTGAGTTC TATTTAATAC TTGCCGCAGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 TACTAATGTT GCTGGTTCAT TATTTAAGAA ATTGCTAGTT GGTTCCTCTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TTATGCTTGT GTTCGGTTAC ATGGGTGAAG CAGGAATAAT GGCAGCTTGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TCATTGGATG TTTAGCATGG GTATATATGA TTTATGAACT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGT GAAGGAAAAT CTGCATGCAA TACTGCAAGT CCTGCTGTAC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IleValGly TrpAlaIle  
 551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCGTTGG TTGGGCAATT  
 TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TATCCTGTAG GTTATTTTAC AGGTTACCTA ATGGGTGACG GTGGATCAGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 TCTTAATCTA AACCTTATTT ATAACCTTGC TGACTIONTGT AACAAGATTC  
 · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT  
 751 A

Figure 1-36

MetGlyLysLeu LeuLeuIle~LeuGlySer ValIleAlaLeu ProThrPhe·  
 1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCGC TTCCAACATT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCCGCTGGT GGTGGTGACC TGGATGCTAG TGACTIONACT GGTGTATCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
 101 TCTGGTTAGT TACTGCTGCT CTATTAGCAT CTACTGTATT TTTCTTTGTT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGACA GAGTTTCTGC TAAATGGAAA ACATCATTAA CAGTATCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TTTAGTTACT GGTATTGCTT TTTGGCATTAA CATGTACATG AGAGGTGTAT  
 · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATTGAAAC TGGTGATTCA CCAACTGTTT TTAGATACAT CGACTGGTTG  
 LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 CTAACGTGC CTTTACTAAT TTGTGAGTTC TACTTAATAC TAGCAGCAGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 TACTAACGTT GCTGGTTCTT TATTCAAGAA ATTACTAGTT GGTCTCTTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATTAT GGCAGCCTGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TTATAGGATG TTTAGCATGG GTATACATGA TTTATGAATT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGA GAAGGAAAGT CTGCATGTAA CACTGCAAGT CCTGCAGTTC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle  
 551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCTTTGG TTGGGCTATT  
 TyrLeuValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TACCTTGTAG GTTATTTTAC TGGTTACCTA ATGGGTGACG GTGGATCAGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC  
 · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT  
 751 A

Figure 1-37

MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·  
 1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCGC TTCCAACATT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCCGCTGGC GGTGGCGATC TTGATGCTAG TGACTIONACT GGTGTTTCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
 101 TCTGGTTAGT TACTGCTGCT CTATTAGCAT CTACTGTATT CTTCTTTGTT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGGGATA GAGTATCTGC AAAATGGAAA ACTTCATTAA CAGTATCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TTTAGTTACT GGTATTGCTT TTTGGCATTATATGTACATG AGAGGTGTAT  
 · IleGluThr GlySerSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATAGAAAC TGGTAGTTCA CCTACTGTCT TTAGATACAT TGACTIONGCTA  
 LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 TTAACAGTGC CTTTACTAAT ATGTGAGTTC TATTTAATAC TTGCCGACG  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 TACTAATGTT GCTGGTTCAT TATTTAAGAA ATTGCTAGTT GGTCTCTCTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TTATGCTTGT GTTCGGTTAC ATGGGTGAAG CAGGAATAAT GGCAGCTTGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TCATTGGGTG TTTAGCATGG GTATATATGA TTTATGAGCT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGT GAAGGAAAAT CTGCATGTAA TACTGCAAGT CCTGCTGTAC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IleAlaGly TrpAlaIle  
 551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCGCTGG TTGGGCAATT  
 TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TATCCTGTAG GTTATTTTAC AGGTTACCTA ATGGGTGACG GTGGATCAGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 TCTTAATCTA AACCTTATTT ATAACCTTGC TGACTIONTGT AACAAGATTC  
 · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT  
 751 A

Figure 1-38

MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·  
 1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATCGCGC TTCCAACATT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCTGCTGGC GGTGGCGATC TTGATGCTAG TGACTIONACT GGTGTTTCAT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
 101 TCTGGTTAGT TACTGCTGCT CTATTAGCGT CTACTGTATT CTTCTTTGTT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGATA GAGTGTCTGC AAAATGGAAA ACTTCATTAA CAGTATCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TTTAGTTACT GGTATTGCTT TTTGGCATTATATGTACATG AGAGGTGTAT  
 · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATAGAAAC TGGTGATTCTG CCTACTGTCT TTAGATACAT CGACTGGTTA  
 LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 TTAAGTGTGC CTTTACTAAT ATGTGAGTTC TATCTGATAC TTGCTGCAGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 TACTAATGTT GCTGGTTCAT TATTTAAGAA ATTGCTAGTT GGTCTCTCTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TGATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATAAT GGCAGCTTGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TCATTGGATG TTTAGCATGG GTATATATGA TTTATGAACT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGT GAAGGAAAAT CTGCATGCAA TACTGCAAGT CCTGCTGTAC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IleValGly TrpAlaIle  
 551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCGTTGG TTGGGCAATT  
 TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TATCCTGTAG GTTATTTTAC AGGTTACCTA ATGGGTGACG GTGGATCAGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 TCTTAATCTA AACCTTATTT ATAACCTTGC TGACTIONTGT AACAAGATTC  
 · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT  
 751 A

Figure 1-39

MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·  
1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCAC TTCCTACATT  
·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
51 TGCTGCAGGT GGTGGTGACC TTGATGCTAG TGATTACACT GGTGTTTCTT  
· TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
101 TTTGGTTAGT TACTGCTGCT TTATTAGCAT CTACTGTATT TTTCTTTGTT  
GluArgAspArg ValSerAla LysTrpLys ThrSerLeuAla ValSerGly·  
151 GAAAGAGATA GAGTTTCTGC AAAATGGAAA ACATCATTAG CTGTATCTGG  
·LeuIleThr GlyIleAlaPhe TrpHisCys MetTyrMet ArgGlyValTrp·  
201 TCTTATTACT GGTATTGCGT TCTGGCATTG CATGTACATG AGAGGGGTAT  
· IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu  
251 GGATTGAAAC TGGTGATTCTG CCAACTGTAT TTAGATACAT TGATTGGTTA  
LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
301 CTAACAGTTC CTCTATTAAT ATGTGAATTC TACTTAATTC TTGCTGCTGC  
·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
351 AACTAATGTT GCTGGATCAT TATTTAAGAA ATTACTAGTT GGTTCCTCTG  
· MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATCAT GGCTGCATGG  
ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
451 CCTGCATTCA TTATTGGGTG TTTAGCTTGG GTATACATGA TTTATGAATT  
·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
501 ATGGGCTGGA GAAGGAAAAT CTGCATGTAA TACTGCAAGT CCTGCTGTGC  
· SerAlaTyr AsnThrMet MetTyrIleIle ValPheGly TrpAlaIle  
551 AATCAGCTTA CAACACAATG ATGTATATTA TCGTCTTTGG TTGGGCGATT  
TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
601 TATCCTGTAG GTTATTTTAC AGGTTACCTG ATGGGTGACG GTGGATCAGC  
·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC  
· PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT

Figure 1-40



MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·  
 1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCAC TTCCTACATT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCTGCAGGT GGTGGTGACC TTGATGCTAG TGATTACACT GGTGTTTCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe SerPheVal  
 101 TTTGGTTAGT TACTGCTGCT TTATTAGCAT CTACTGTATT TTCCTTTGTT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGATA GAGTTTCTGC AAAATGGAAA ACATCATTA CTGTATCTGG  
 ·LeuIleThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TCTTATTACT GGTATTGCTT TCTGGCATTA CATGTACATG AGAGGGGTAT  
 · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATTGAAAC TGGTGATTCTG CCAACTGTAT TTAGATACAT TGATTGGTTA  
 LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 CTAACAGTTC CTCTATTAAT ATGTGAATTC TACTTAATTC TTGCTGCTGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 AACTAATGTT GCTGGATCAT TATTTAAGAA ATTACTAGTT GGTCTCTCTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATCAT GGCTGCATGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TTATTGGGTG TTTAGCTTGG GTATACATGA TTTATGAATT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGA GAAGGAAAAT CTGCATGTAA TACTGCAAGT CCTGCTGTGC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle  
 551 AATCAGCTTA CAACACAATG ATGTATATTA TCATCTTTGG TTGGGCGATT  
 TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TATCCTGTAG GTTATTTTAC AGGTTACCTG ATGGGTGACG GTGGATCAGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC  
 · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT

Figure 1-41

MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·  
 1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCAC TTCCTACATT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCTGCAGGT GGTGGTGACC TTGATGCTAG TGATTACACT GGTGTTTCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
 101 TTTGGTTAGT TACTGCTGCT TTATTAGCAT CTACTGTATT TTTCTTTGTT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGATA GAGTTTCTGC AAAATGGAAA ACATCATTA CTGTATCTGG  
 ·LeuIleThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TCTTATTACT GGTATTGCTT TCTGGCATT CATGTACATG AGAGGGGTAT  
 · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATTGAAAC TGGTGATTCT CCAACCGTAT TTAGATACAT TGATTGGTTA  
 LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 CTAACAGTTC CTCTATTAAT ATGTGAATTC TACTTAATTC TTGCTGCTGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 AACTAATGTT GCTGGATCAT TATTTAAGAA ATTACTAGTT GGTTCCTCTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATCAT GGCTGCATGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TTATTGGGTG TTTAGCTTGG GTATACATGA TTTATGAATT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGA GAAGGAAAAT CTGCATGTAA TACTGCAAGT CCTGCTGTGC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle  
 551 AATCAGCTTA CAACACAATG ATGTATATTA TCATCTTTGG TTGGGCGATT  
 TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TATCCTGTAG GTTATTTTAC AGGTTACCTG ATGGGTGACG GTGGATCAGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 ACTTAACCTTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC  
 · PheGlySer IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
 701 TATTTGGTTC AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT

Figure 1-42

MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·  
 1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCAC TTCCTACATT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCTGCAGGT GGTGGTGACC TTGATGCTAG TGATTACACT GGTGTTTCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
 101 TTTGGTTAGT TACTGCTGCT TTATTAGCGT CTTACTGTATT CTCTTTGTGTT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGATA GAGTGTCTGC AAAATGGAAA ACTTCATTAA CAGTATCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TTTAGTTACT GGTATTGCTT TTTGGCATTATATGTACATG AGAGGTGTAT  
 · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATAGAAAC TGGTGATTCTG CCTACTGTCT TTAGATACAT CGACTGGTTA  
 LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 TTAAGTGTGC CTTTACTAAT ATGTGAGTTC TATCTGATAC TTGCTGCAGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 TACTAATGTT GCTGGTTCAT TATTTAAGAA ATTGCTAGTT GGTTCCTCTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TGATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATAAT GGCAGCTTGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TCATTGGGTG TTTAGCATGG GTATATATGA TTTATGAACT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGT GAAGGAAAAT CTGCATGCAA TACTGCAAGT CCTGCTGTAC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IleValGly TrpAlaIle  
 551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCGTTGG TTGGGCAATA  
 TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TATCCTGTAG GTTATTTTAC AGGTTACCTA ATGGGTGACG GTGGATCAGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 TCTTAATCTA AACCTTATCT ATAACCTTGC TGAAGTTGTT AACAAGATTC  
 · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT  
 751 A

Figure 1-43

MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·  
 1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATCGCGC TTCCAACATT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCTGCTGGC GGTGGCGATC TTGATGCTAG TGA CTATACT GGTGTTTCAT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
 101 TCTGGTTAGT TACTGCTGCT CTATTAGCGT CTACTGTATT CTTCTTTGTT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGATA GAGTGTCTGC AAAATGGAAA ACTTCATTAA CAGTATCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TTTAGTTACT GGTATTGCTT TTTGGCATT TATGTACATG AGAGGTGTAT  
 · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATAGAAAC TGGTGATTCTG CCTACTGTCT TTAGATACAT CGACTGGTTA  
 LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 TTAAGTGTGC CTTTACTAAT ATGTGAGTTC TATCTGATAC TTGCTGCAGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 TACTAATGTT GCTGGTTCAT TATTTAAGAA ATTGCTAGTT GGTCTCTCTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TGATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATAAT GGCAGCTTGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TCATTGGATG TTTAGCATGG GTATATATGA TTTATGAACT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGT GAAGGAAAAT CTGCATGCAA TACTGCAAGT CCTGCTGTAC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IleValGly TrpAlaIle  
 551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCGTTGG TTGGGCAATT  
 TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TATCCTGTAG GCTATTTTAC AGGTTACCTA ATGGGTGACG GTGGATCAGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 TCTTAATCTA AACCTTATTT ATAACCTTGC TGA CTTTGT AACAAGATTC  
 · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT  
 751 A

Figure 1-44

MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·  
 1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCAC TTCCTACATT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCTGCAGGT GGTGGTGACC TTGATGCTAG TGATTACACT GGTGTTTCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
 101 TTTGGTTAGT TACTGCTGCT TTATTAGCAT CTACTGTATT TTTCTTTGTT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGATA GAGTTTCTGC AAAATGGAAA ACATCATTAA CTGTATCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TCTTGTTACT GGTATTGCTT TCTGGCATT A CATGTACATG AGAGGGGTAT  
 · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATTGAAAC TGGTGATTCTG CCAACTGTAT TTAGATACAT TGATTGGTTA  
 LeuProValPro LeuAlaIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 CTACCAGTTC CTCTAGCAAT ATGTGAATTC TACTTAATTC TTGCTGCTGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 AACTAATGTT GCTGGATCAT TATTTAAGAA ATTACTAGTT GGTCTCTCTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATCAT GGCTGCATGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TTATTGGGTG TTTAGCTTGG GTATACATGA TTTATGAATT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGA GAAGGAAAAT CTGCATGTAA TACTGCAAGT CCTGCTGTGC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle  
 551 AATCAGCTTA CAACACAATG ATGTATATTA TCATCTTTGG TTGGGCGATT  
 TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TATCCTGTAG GTTATTTTAC AGGTTACCTG ATGGGTGACG GTGGATCAGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGA CTTTGTT AACAAAGATTC  
 · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT  
 751 A

Figure 1-45

MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·  
 1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCGC TTCCAACATT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCCGCTGGT GGTGGTGACC TGGATGCTAG TGACTIONACT GGTGTATCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
 101 TCTGGTTAGT TACTGCTGCT CTATTAGCAT CTACTGTATT TTTCTTTGTT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGACA GAGTTTCTGC TAAATGGAAA ACATCATTA CAGTATCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TTTAGTTACT GGTATTGCTT TTTGGCATT CATGTACATG AGAGGTGTAT  
 · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATTGAAAC TGGTGATTCA CCAACTGTTT TTAGATACAT CGACTGGTTG  
 LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 CTAACGTGC CTTTACTAAT TTGTGAGTTC TACTTAATAC TAGCAGCAGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 TACTAACGTT GCTGGTTCTT TATTCAAGAA ATTACTAGTT GGTTCCTCTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATTAT GGCAGCCTGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TTATAGGATG TTTAGCATGG GTATACATGA TTTATGAATT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGA GAAGGAAAGT CTGCATGTAA CACTGCAAGT CCTGCAGTTC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle  
 551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCTTTGG TTGGGCTATT  
 TyrLeuValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TACCTTGTAG GTTATTTTAC TGGTTACCTA ATGGGTGACG GTGGATCAGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGACTIONTGT AACCAAGATTC  
 · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT  
 751 A

Figure 1-46

MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·  
 1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCGC TTCCAACATT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCCGCTGGC GGTGGCGATC TTGATGCTAG TGACTIONACT GGTGTTTCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
 101 TCTGGTTAGT TACTGCTGCT CTATTAGCAT CTACTGTATT CTTCTTTGTT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGGGATA GAGTATCTGC AAAATGGAAA ACTTCATTAA CAGTATCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TTTAGTTACT GGTATTGCTT TTTGGCATTATATGTACATG AGAGGTGTAT  
 · IleGluThr GlySerSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATAGAAAC TGGTAGTTCA CCTACTGTCT TTAGATACAT TGACTIONGCTA  
 LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 TTAACAGTGC CTTTACTAAT ATGTGAGTTC TATTTAATAC TTGCCGCGAGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 TACTAATGTT GCTGGTTCAT TATTTAAGAA ATTGCTAGTT GGTTCTCTTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATTAT GGCAGCCTGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TTATAGGATG TTTAGCATGG GTATACATGA TTTATGAATT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGA GAAGGAAAGT CTGCATGTAA CACTGCAAGT CCTGCAGTTC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle  
 551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCTTTGG TTGGGCTATT  
 TyrLeuValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TACCTTGTAG GTTATTTTCAC TGGTTACCTA ATGGGTGACG GTGGATCAGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAGATTCT  
 · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
 701 TATTGGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT  
 751 A

Figure 1-47

MetGlyLysLeu LeuLeuArg LeuGlySer ValIleAlaLeu ProThrPhe·  
 1 ATGGGTAAAT TATTACTGAG ATTAGGTAGT GTTATCGCGC TTCCAACATT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCTGCTGGC GGTGGCGATC TTGATGCTAG TGA CTATACT GGTGTTTCAT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
 101 TCTGGT TAGT TACTGCTGCT CTATTAGCGT CTACTGTATT CTCTTTGT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGATA GAGTGTCTGC AAAATGGAAA ACTTCATTAA CAGTATCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TTTAGTTACT GGTATTGCTT TTTGGCATTATATGTACATG AGAGGTGTAT  
 · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATAGAAAC TGGTGATTCTG CCTACTGTCT TTAGATACAT CGACTGGTTA  
 LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 TTAAGTGTGC CTTTACTAAT ATGTGAGTTC TATCTGATAC TTGCTGCAGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 TACTAATGTT GCTGGTTCAT TATTTAAGAA ATTGCTAGTT GGTCTCTTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TGATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATAAT GGCAGCTTGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TCATTGGATG TTTAGCATGG GTATATATGA TTTATGAACT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGT GAAGGAAAAT CTGCATGCAA TACTGCAAGT CCTGCTGTAC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IleValGly TrpAlaIle  
 551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCGTTGG TTGGGCAATT  
 TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TATCCTGTAG GTTATTTTAC AGGTTACCTA ATGGGTGACG GTGGATCAGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 TCTTAATCTA AACCTTATTT ATAACCTTGC TGACTTTGTT AACAAGATTC  
 · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT  
 751 A

Figure 1-48



MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·  
 1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCAC TTCCTACATT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCTGCAGGT GGTGGTGACC TTGATGCTAG TGATTACACT GGTGTTTCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
 101 TTTGGTTAGT TACTGCTGCT TTATTAGCAT CTACTGTATT TTTCTTTGTT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuAla ValSerGly·  
 151 GAAAGAGATA GAGTTTCTGC AAAATGGAAA ACATCATTAG CTGTATCTGG  
 ·LeuIleThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TCTTATTACT GGTATTGCGT TCTGGCATT CATGTACATG AGAGGGGTAT  
 · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATTGAAAC TGGTGATTCTG CCAACTGTAT TTAGATACAT TGATTGGTTA  
 LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 CTAACAGTTC CTCTATTAAT ATGTGAATTC TACTTAATTC TTGCTGCTGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 AACTAATGTT GCTGGATCAT TATTTAAGAA ATTACTAGTT GGTTCCTTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATCAT GGCTGCATGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TTATTGGGTG TTTAGCTTGG GTATACATGA TTTATGAATT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGA GAAGGAAAAT CTGCATGTAA TACTGCAAGT CCTGCTGTGC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IleValGly TrpAlaIle  
 551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCGTTGG TTGGGCAATA  
 TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TATCCTGTAG GTTATTTTAC AGGTTACCTA ATGGGTGACG GTGGATCAGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 TCTTAATCTA AACCTTATTT ATAACCTTGC TGACTTTGTT AACAAGATTC  
 · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT  
 751 A

Figure 1-49

MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·  
 1 ATGGGTAAAT TATTACTGAT CTTAGGTAGT GTTATTGCAC TTCCTACATT  
 ·AlaAlaGly GlyGlyAspPro AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCTGCAGGT GGTGGTGACC CTGATGCTAG TGATTACACT GGTGTTTCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
 101 TTTGGTTAGT TACTGCTGCT TTATTAGCAT CTACTGTATT TTTCTTTGTT  
 GluArgAspArg ValSerAla GluTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGATA GAGTTTCTGC AGAATGGAAA ACATCATTA CTGTATCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TCTTGTTACT GGTATTGCTT TCTGGCATT CATGTACATG AGAGGGGTAT  
 · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATTGAAAC TGGTGATTCTG CCAACTGTAT TTAGATACAT TGATTGGTTA  
 LeuThrValPro LeuGluIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 CTAACAGTTC CTCTAGAAAT ATGTGAATTC TACTTAATTC TTGCTGCTGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 AACTAATGTT GCTGGATCAT TATTTAAGAA ATTACTAGTT GGTTCCTCTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATCAT GGCTGCATGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TTATTGGGTG TTAGCTTGG GTATACATGA TTTATGAATT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGA GAAGGAAAAT CTGCATGTAA TACTGCAAGT CCTGCTGTGC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle  
 551 AATCAGCTTA CAACACAATG ATGTATATTA TCATCTTTGG TTGGGCGATT  
 TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TATCCTGTAG GTTATTTTAC AGGTTACCTG ATGGGTGACG GTGGATCAGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC  
 · IleGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
 701 TAATTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT  
 751 A

Figure 1-50

MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·  
 1 ATGGGTAAAT TATTACTGAT CTTAGGTAGT GTTATTGCAC TTCCTACATT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCTGCAGGT GGTGGTGACC TTGATGCTAG TGATTACACT GGTGTTTCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
 101 TTTGGTTAGT TACTGCTGCT TTATTAGCAT CTACTGTATT TTTCTTTGTT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGATA GAGTTTCTGC AAAATGGAAA ACATCATTAA CTGTATCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TCTTGTTACT GGTATTGCTT TCTGGCATT CATGTACATG AGAGGGGTAT  
 · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATTGAAAC TGGTGATTCTG CCAACTGTAT TTAGATACAT TGATTGGTTA  
 LeuThrValPro LeuValIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 CTAACAGTTC CTCTAGTAAT ATGTGAATTC TACTTAATTC TTGCTGCTGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 AACTAATGTT GCTGGATCAT TATTTAAGAA ATTACTAGTT GGTTCCTCTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATCAT GGCTGCATGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TTATTGGGTG TTTAGCTTGG GTATACATGA TTTATGAATT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGA GAAGGAAAAT CTGCATGTAA TACTGCAAGT CCTGCTGTGC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle  
 551 AATCAGCTTA CAACACGATG ATGTATATTA TCATCTTTGG TTGGGCGATT  
 TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TATCCTGTAG GTTATTTTAC AGGTTACCTG ATGGGTGACG GTGGATCAGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 TCTTAACCTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC  
 · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
 701 TATTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT  
 751 A

Figure 1-51

MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·  
 1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCAC TTCCTACATT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCTGCAGGT GGTGGTGACC TTGATGCTAG TGATTACACT GGTGTTTCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
 101 TTTGGTTAGT TACTGCTGCT TTATTAGCAT CTA CTGTATT TTTCTTTGTT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValProGly·  
 151 GAAAGAGATA GAGTTTCTGC AAAATGGAAA ACATCATTAA CTGTACCTGG  
 ·LeuIleThr AspIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TCTTATTACT GATATTGCTT TCTGGCATT CATGTACATG AGAGGGGTAT  
 · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATTGAAAC TGGTGATTCTG CCAACTGTAT TTAGATA CAT TGATTGGTTA  
 LeuThrValPro LeuGlnIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 CTAACAGTTC CTCTACAAAT ATGTGAATTC TACTTAATTC TTGCTGCTGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 AACTAATGTT GCTGGATCAT TATTTAAGAA ATTACTAGTT GGTTCCTCTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATCAT GGCTGCATGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TTATTGGGTG TTAGCTTGG GTATACATGA TTTATGAATT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGA GAAGGAAAAT CTGCATGTAA TACTGCGAGT CCTGCTGTGC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle  
 551 AATCAGCTTA CAACACAATG ATGTATATTA TCATCTTTGG TTGGGCGATT  
 TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TATCCTGTAG GTTATTTTAC AGGTTACCTG ATGGGTGACG GTGGATCAGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGA CTTTGT AACAAGATTC  
 · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT  
 751 A

Figure 1-52

MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·  
 1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCAC TTCCTACATT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCTGCAGGT GGTGGTGACC TTGATGCTAG TGATTACACT GGTGTTTCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
 101 TTTGGTTAGT TACTGCTGCT TTATTAGCAT CTACTGTATT TTTCTTTGTT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValProGly·  
 151 GAAAGAGATA GAGTTTCTGC AAAATGGAAA ACATCATTAA CTGTACCTGG  
 ·LeuIleThr AspIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TCTTATTACT GATATTGCTT TCTGGCATT CATGTACATG AGAGGGGTAT  
 · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATTGAAAC TGGTGATTCTG CCAACTGTAT TTAGATACAT TGATTGGTTA  
 LeuThrValPro LeuGlnIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 CTAACAGTTC CTCTACAAAT ATGTGAATTC TACTTAATTC TTGCTGCTGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 AACTAATGTT GCTGGATCAT TATTTAAGAA ATTACTAGTT GGTTCTCTTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATCAT GGCTGCATGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TTATTGGGTG TTTAGCTTGG GTATACATGA TTTATGAATT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGA GAAGGAAAAT CTGCATGTAA TACTGCGAGT CCTGCTGTGC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle  
 551 AATCAGCTTA CAACACAATG ATGTATATTA TCATCTTTGG TTGGGCGATT  
 TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TATCCTGTAG GTTATTTTAC AGGTTACCTG ATGGGTGACG GTGGATCAGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC  
 · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsn  
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATT

Figure 1-53

MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·  
 1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCAC TTCCTACATT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer GlyTyrThr GlyValSerPhe·  
 51 TGCTGCAGGT GGTGGTGACC TTGATGCTAG TGGTTACACT GGTGTTTCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
 101 TTTGGTTAGT TACTGCTGCT TTATTAGCAT CTACTGTATT TTTCTTTGTT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValProGly·  
 151 GAAAGAGATA GAGTTTCTGC AAAATGGAAA ACATCATTA CTGTACCTGG  
 ·LeuIleThr AspIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TCTTATTACT GATATTGCTT TCTGGCATTA CATGTACATG AGAGGGGTAT  
 · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATTGAAAC TGGTGATTCTG CCAACTGTAT TTAGATACAT TGATTGGTTA  
 LeuThrValSer LeuGlnIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 CTAACAGTTT CTCTACAAAT ATGTGAATTC TACTTAATTC TTGCTGCTGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 AACTAATGTT GCTGGATCAT TATTTAAGAA ATTACTAGTT GGTTCTCTTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATCAT GGCTGCATGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TTATTGGGTG TTTAGCTTGG GTATACATGA TTTATGAATT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGA GAAGGAAAAT CTGCATGTAA TACTGCGAGT CCTGCTGTGC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle  
 551 AATCAGCTTA CAACACAATG ATGTATATTA TCATCTTTGG TTGGGCGATT  
 TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TATCCTGTAG GTTATTTTAC AGGTTACCTG ATGGGTGACG GTGGATCAGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC  
 · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT  
 751 A

Figure 1-54

MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProThrPhe·  
 1 ATGGGTAAAT TATTACTGAT ATTAGGTAGT GTTATTGCAC TTCCTACATT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCTGCAGGT GGTGGTGACC TTGATGCTAG TGATTACACT GGTGTTTCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
 101 TTTGGTTAGT TACTGCTGCT TTATTAGCAT CTACTGTATT TTTCTTTGTT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValProGly·  
 151 GAAAGAGATA GAGTTTCTGC AAAATGGAAA ACATCATTAA CTGTACCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TCTTGTTACT GGTATTGCTT TCTGGCATT CATGTACATG AGAGGGGTAT  
 · IleGluThr GlyAspSer ProAlaValPhe ArgTyrIle AspTrpLeu  
 251 GGATTGAAAC TGGTGATTCTG CCAGCTGTAT TTAGATACAT TGATTGGTTA  
 LeuThrValPro LeuGluIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 CTAACAGTTC CTCTAGAGAT ATGTGAATTC TACTTGATTCTTGGCTGCTGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 AACTAATGTT GCTGGATCAT TATTTAAGAA ATTACTAGTT GGTTCCTCTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATCAT GGCTGCATGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TTATTGGGTG TTTAGCTTGG GTATACATGA TTTATGAATT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGA GAAGGAAAAT CTGCATGTAA TACTGCAAGT CCTGCTGTGC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle  
 551 AATCAGCTTA CAACACAATG ATGTATATTA TCATCTTTGG TTGGGCGATT  
 TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TATCCTGTAG GTTATTTTAC AGGTTACCTG ATGGGTGACG GTGGATCAGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 TCTTAACCTTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC  
 · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT  
 751 A

Figure 1-55

MetGlyLysLeu LeuValMet LeuGlySer ValIleAlaLeu ProThrPhe·  
 1 ATGGGTAAAT TATTAGTGAT GTTAGGTAGT GTTATTGCGC TTCCAACATT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCCGCTGGT GGTGGTGACC TGGATGCTAG TGA CTACACT GGTGTATCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
 101 TCTGGT TAGT TACTGCTGCT CTATTAGCAT CTACTGTATT TTTCTTTGTT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGACA GAGTTTCTGC TAAATGGAAA ACATCATTA CAGTATCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TTTAGTTACT GGTATTGCTT TTTGGCATT CATGTACATG AGAGGTGTAT  
 · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATTGAAAC TGGTGATTCA CCAACTGTTT TTAGATA CAT CGACTGGTTG  
 LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 CTA ACTGTGC CTTTACTAAT TTGTGAGTTC TACTTAATAC TAGCAGCAGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 TACTAACGTT GCTGGTTCTT TATTCAAGAA ATTACTAGTT GGTTCCTTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATTAT GGCAGCCTGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TTATAGGATG TTTAGCATGG GTATACATGA TTTATGAATT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGA GAAGGAAAGT CTGCATGTAA CACTGCAAGT CCTGCAGTTC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle  
 551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCTTTGG TTGGGCTATT  
 TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TACCCTGTAG GTTATTTTAC TGGTTACCTA ATGGGTGACG GTGGATCAGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 TCTTA ACTTA AACCTTATCT ATAACCTTGC TGACTTTGTT AACAAGATTC  
 · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
 701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT  
 751 A

Figure 1-56



MetGlyLysArg LeuValIle LeuGlySer ValIleAlaLeu ProThrPhe·  
1 ATGGGTAAAA GATTAGTGAT ATTAGGTAGT GTTATTGCGC TTCCAACATT  
·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
51 TGCCGCTGGT GGTGGTGACC TGGATGCTAG TGA CTACACT GGTGTATCTT  
· TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
101 TCTGGT TAGT TACTGCTGCT CTATTAGCAT CTACTGTATT TTTCTTTGTT  
GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
151 GAAAGAGACA GAGTTTCTGC TAAATGGAAA ACATCATTAA CAGTATCTGG  
·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
201 TTTAGTTACT GGTATTGCTT TTTGGCATT CATGTACATG AGAGGTGTAT  
· IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu  
251 GGATTGAAAC TGGTGATTCA CCAACTGTTT TTAGATACAT CGACTGGTTG  
LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
301 CTA ACTGTGC CTTTACTAAT TTGTGAGTTC TACTTAATAC TAGCAGCAGC  
·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
351 TACTAACGTT GCTGGTTCTT TATTCAAGAA ATTACTAGTT GGTTCTCTTG  
· MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATTAT GGCAGCCTGG  
ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
451 CCTGCATTCA TTATAGGATG TTTAGCATGG GTATACATGA TTTATGAATT  
·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
501 ATGGGCTGGA GAAGGAAAGT CTGCATGTAA CACTGCAAGT CCTGCAGTTC  
· SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle  
551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCTTTGG TTGGGCTATT  
TyrLeuValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
601 TACCTTGTAG GTTATTTTAC TGGTTACCTA ATGGGTGACG GTGGATCAGC  
·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGA CTTTGTT AACAAAGATTC  
· PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
701 TATTTGGTTT AATTATATGG AATGTTGCTG TTAAAGAATC TTCTAATGCT  
751 A

Figure 1-57

MetGlyLysAla LeuLeuMet LeuGlySer ValIleAlaLeu ProThrPhe·  
 1 ATGGGTAAAG CATTACTGAT GTTAGGTAGT GTTATTGCGC TTCCAACATT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCCGCTGGT GGTGGTGACC TGGATGCTAG TGACTIONACT GGTGTATCTT  
 · TrpLeuVal ThrAlaAla ProLeuAlaSer ThrValPhe PhePheVal  
 101 TCTGGTTAGT TACTGCTGCT CCATTAGCAT CTACTGTATT TTTCTTTGTT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGACA GAGTTTCTGC TAAATGGAAA ACATCATTAA CAGTATCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TTTAGTTACT GGTATTGCTT TTTGGCATT CATGTACATG AGAGGTGTAT  
 · IleGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATTGAAAC TGGTGATTCA CCAACTGTTT TTAGATACAT CGACTGGTTG  
 LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 CTAAGTGTGC CTTTACTAAT TTGTGAGTTC TACTTAATAC TAGCAGCAGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 TACTAACGTT GCTGGTTCTT TATTCAAGAA ATTACTAGTT GGTTCCTTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATTAT GGCAGCCTGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TTATAGGATG TTTAGCATGG GTATACATGA TTTATGAATT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGA GAAGGAAAGT CTGCATGTAA CACTGCAAGT CCTGCAGTTC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle  
 551 AGTCAGCTTA CAACACAATG ATGTATATCA TCATCTTTGG TTGGGCTATT  
 TyrLeuValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TACCTTGTAG GTTATTTTAC TGGTTACCTA ATGGGTGACG GTGGATCAGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 TCTTAACTTA AACCTTATCT ATAACCTTGC TGACTIONTTGTT AACAGATTC  
 · PheGlyLeu IleIleArg AsnValAlaVal LysGluSer SerAsnAla  
 701 TATTTGGTTT AATTATAAGG AATGTTGCTG TTAAAGAATC TTCTAATGCT  
 751 A

Figure 1-58

MetGlyLysGly LeuLeuMet LeuGlySer ValIleAlaLeu ProSerPhe·  
 1 ATGGGTAAAG GATTACTGAT GTTAGGTAGT GTTATTGCGC TTCCATCTTT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCTGCTGGC GGTGGCGATC TTGATGCTAG TGA CTATAACA GGTGTTTCAT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
 101 TCTGGTTGGT TACTGCTGCA TTATTAGCCT CAACTGTTTT CTTCTTTGTT  
 GluArgAspArg ValAlaAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGACA GAGTTGCTGC AAAATGGAAA ACATCGTTAA CAGTATCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TCTTGTTACT GGTATTGCTT TTTGGCATT CATGTACATG AGAGGGGTTT  
 · ValGluThr GlyGluSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGGTAGAGAC TGGTGAATCA CCAACTGTAT TCAGATATAT TGA CTGGCTA  
 LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 CTAACAGTAC CATTATTAAT ATGTGAGTTC TACTTAATAC TTGCAGCTGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuIle GlySerLeuVal·  
 351 AACTAATGTT GCTGGTTCTT TATTTAAAAA GCTATTAATT GGTTCCTTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TTATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATCAT GGCAGCTTGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp PheTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TTATTGGGTG CTTAGCTTGG TTCTACATGA TTTATGAACT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGT GAAGGAAAGT CTGCTTGTA TACTGCAAGT CCAGCTGTTC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IleIleGly TrpAlaIle  
 551 AATCAGCATA CAACACGATG ATGTATATTA TTATCATTGG TTGGGCTATT  
 TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TACCCTGTAG GTTACTTTAC TGGTTACCTA ATGGGTGACG GCGGATCTGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 CTTAAACTTA AACCTAATTT ATAACCTTGC TGA CTTCGTT AACAAGATTC  
 · PheGlyLeu IleIleTrp HisValAlaVal LysGluSer SerAsnAla  
 701 TATTTGGTTT AATTATCTGG CATGTTGCTG TTAAAGAATC TTCTAATGCT  
 751 A

Figure 1-59

MetGlyLysLeu LeuLeuIle LeuGlySer ValIleAlaLeu ProSerPhe·  
 1 ATGGGTAAAT TATTATTGAT CTTAGGTAGT GTTATTGCGC TTCCTTCATT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaGly AspTyrThr GlyValSerPhe·  
 51 TGCAGCTGGT GCGGCGACC TTGATGCTGG TGATTACACT GGTGTTAGTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheIle  
 101 TTTGGTTAGT GACTGCAGCT CTTTGGCTT CAACTGTATT TTTCTTTATT  
 GluArgAspArg ValAlaAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGATA GAGTTGCTGC TAAATGGAAG ACATCTTTAA CAGTATCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr MetTyrMet ArgGlyValTrp·  
 201 TCTAGTTACT GGTATTGCTT TCTGGCATT CATGTACATG AGAGGTGTTT  
 · ValGluThr GlyGluSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGGTCGAAAC TGGTGAATCA CCAACTGTAT TCAGATATAT TGA CTGGCTA  
 LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 CTTACAGTGC CTTTATTAAT ATGTGAGTTT TATCTGATTC TTGCAGCTGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 AACTAATGTT GCTGGTTCTT TATTTAAGAA GCTTTTAGTT GGTTCTCTTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TAATGCTTGT ATTTGGTTAT ATGGGCGAAG CAGGAATTAT GGCAGCTTGG  
 ProAlaPheIle ValGlyCys LeuAlaTrp PheTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TTGTTGGATG TTTAGCTTGG TTCTATATGA TTTATGAGCT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGA GAAGGAAAAT CTGCATGCAA TACTGCAAGT CCAGCTGTTC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IleIleGly TrpAlaIle  
 551 AATCAGCATA CAACACAATG ATGTATATTA TTATCATTGG TTGGGCTATT  
 TyrProLeuGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TATCCTCTTG GGTACTTTAC TGGTTACCTA ATGGGTGACG GCGGATCAGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 CTTAAACTTA AACCTAATTT ATAACCTTGC TGA CTTTGTT AACAAAGATTC  
 · PheGlyLeu IleIleTrp HisValAlaVal LysGluSer SerAsnAla  
 701 TATTTGGTTT AATCATATGG CATGTCGCTG TTAAAGAATC TTCTAATGCT  
 751 A

Figure 1-60

MetGlyLysGln LeuLeuIle LeuGlySer ValIleAlaLeu ProSerPhe·  
 1 ATGGGTAAAC AATTACTGAT CTTAGGTAGT GTTATTGCGC TTCCATCTTT  
 ·AlaAlaGly GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TGCTGCTGGC GGTGGCGATC TTGATGCTAG TGA CTATAACA GGTGTTTCAT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheIle  
 101 TCTGGTTAGT TACTGCTGCA TTATTAGCCT CAACTGTTTT CTTTTTTATT  
 GluArgAspArg ValAlaAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGACA GAGTTGCTGC AAAATGGAAA ACGTCGTAA CAGTATCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·  
 201 CCTTGTTACT GGTATTGCTT TTTGGCACTA CTTGTATATG AGAGGAGTTT  
 · ValGluThr GlyGluSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGGTAGAGAC TGGTGAATCA CCAACTGTAT TCAGATATAT TGA CTGGTTA  
 LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 CTAACAGTAC CATTATTAAT ATGTGAGTTT TACTTAATAC TTGCAGCTGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuIle GlySerLeuVal·  
 351 AACTAATGTT GCTGGTTCTT TATTTAAAAA GCTATTAATT GGTTCTCTTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaTrp  
 401 TGATGCTTGT GTTTGGTTAC ATGGGTGAAG CAGGAATCAT GGCGGCTTGG  
 ProAlaPheIle IleGlyCys LeuAlaTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TTATTGGGTG CTTAGCTTGG GTCTATATGA TATATGAGCT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 ATGGGCTGGT GAAGGAAAAT CTGCATGTAA TACTGCAAGT CCAGCTGTTC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpAlaIle  
 551 AATCAGCATA CAACACAATG ATGTATATTA TTATCTTTGG TTGGGCTATT  
 TyrProValGly TyrPheThr GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TACCCTGTAG GTTACTTTAC TGGTTACCTA ATGGGTGACG GCGGATCTGC  
 ·LeuAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 CTTAAACTTA AACCTTATCT ATAACCTTGC TGA CTTCGTT AACAAAGATTC  
 · PheGlyLeu IleIleTrp HisValAlaVal LysGluSer SerAsnAla  
 701 TATTTGGTTT AATTATCTGG CATGTTGCTG TTAAAGAATC TTCTAATGCT  
 751 A

Figure 1-61

MetGlyLysLeu LeuMetMet LeuGlySer ValIleAlaLeu ProSerPhe·  
 1 ATGGGTAAAT TATTAATGAT GTTAGGTAGT GTTATTGCGC TTCCTTCATT  
 ·AlaAlaSer GlyGlyAspLeu AspAlaSer AspTyrThr GlyValSerPhe·  
 51 TCGGCAAGT GGTGGCGATT TGGATGCTAG TGATTACACT GGTGTTTCAT  
 · GlyLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheVal  
 101 TTGGTTGGT GACTGCAGCT TTATTAGCTT CAACTGTATT TTTCTTTGTT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGATA GAGTTTCTGC TAAATGGAAG ACATCTTTGA CAGTATCAGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·  
 201 TTTAGTTACT GGTATTGCTT TTTGGCATT CTTATATATG AGAGGTGTAT  
 · ValGluThr GlyGluThr ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGGTTGAAAC TGGTGAACT CCAACAGTAT TTAGATATAT TGATTGGTTA  
 LeuThrValPro LeuLeuIle CysGluPhe TyrLeuIleLeu AlaAlaAla·  
 301 TTAAGTTTC CATTACTAAT CTGCGAGTTT TATTTAATTC TAGCTGCTGC  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 AACTAACGTA GCTGGTTCAT TATTTAAGAA ACTACTTGTT GGTTCACCTG  
 · MetLeuVal PheGlyTyr MetGlyGluAla GlyIleMet AlaAlaLeu  
 401 TAATGCTTGT GTTTGGATAC ATGGGTGAAG CAGGAATCAT GGCAGCTTTG  
 ProAlaPheIle IleGlyCys LeuAlaTrp IleTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TTATTGGGTG TTTGGCATGG ATATATATGA TTTATGAGCT  
 ·TrpAlaGly GluGlyLysSer AlaCysAsn ThrAlaSer ProAlaValGln·  
 501 TTGGGCTGGA GAAGGGAAAT CTGCATGCAA TACTGCAAGT CCTGCCGTTC  
 · SerAlaTyr AsnThrMet MetTyrIleIle IlePheGly TrpLeuIle  
 551 AATCAGCTTA CAACACCATG ATGTACATCA TCATTTTGG TTGGTTAATC  
 TyrProValGly TyrAlaSer GlyTyrLeu MetGlyAspGly GlySerAla·  
 601 TATCCAGTTG GTTATGCATC AGGCTATCTA ATGGGCGATG GCGGATCAGC  
 ·MetAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·  
 651 TATGAAGTTA AACTTAATAT ATAACCTTGC TGACTTTGTT AACAAAGATTC  
 · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla  
 701 TATTTGGTTT AATTATCTGG AATGTTGCTG TTAAAGAATC TTCTAATGCT  
 751 A

Figure 1-62

MetGlyLysGly LeuLeuMet LeuGlySer ValIleAlaLeu ProSerPhe·  
 1 ATGGGTAAAG GATTACTGAT GTTAGGTAGT GTTATTGCAC TTCCATCCTT  
 ·AlaAlaGly GlyGlyAsnLeu AsnAlaAla AspValThr GlyValSerPhe·  
 51 TGCAGCTGGT GGAGGCAACT TAAATGCAGC TGATGTAAC TGGTGATCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheIle  
 101 TTTGGCTAGT TACTGCCGCT TTA CTGCTT CAACAGTATT CTTTTTTATT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGATA GAGTTTCTGC AAAATGGAAG ACATCACTAA CAGTATCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·  
 201 TTTAGTTACT GGTATTGCTT TTTGGCATT CCTTTACATG AGAGGTGTTT  
 · ValAspSer TrpAsnPro GluThrGlyMet GlyGluSer ProThrGlu  
 251 GGGTTGATTC TTGGAATCCT GAAACAGGAA TGGGAGAATC TCCAAC TGAA  
 PheArgTyrIle AspTrpLeu LeuThrVal ProLeuLeuIle CysGluPhe·  
 301 TTTAGATATA TTGATTGGTT ACTAACAGTA CCTTTATTAA TTTGTGAGTT  
 ·TyrLeuIle LeuAlaAlaAla ThrAsnVal AlaGlySer LeuPheLysLys·  
 351 TTATCTAATA TTAGCTGCTG CAACAAATGT TGCTGGTTCA TTATTCAAAA  
 · LeuLeuVal GlySerLeu ValMetLeuIle AlaGlyTyr MetGlyGlu  
 401 AATTATTAGT TGGTTCATTG GTCATGCTTA TTGCAGGATA CATGGGTGAA  
 SerGlyAsnAla AsnValMet IleAlaPhe ValValGlyCys LeuAlaTrp·  
 451 TCTGGTAATG CCAATGTGAT GATTGCATTC GTAGTTGGAT GCTTAGCATG  
 ·LeuTyrMet IleTyrGluLeu TrpAlaGly GluGlyLys AlaAlaCysAsn·  
 501 GTTGTATATG ATATATGAAT TGTGGGCTGG TGAAGGTAAA GCAGCTTGCA  
 · ThrAlaSer ProAlaVal GlnSerAlaTyr AsnThrMet MetTrpIle  
 551 ATACAGCAAG CCCTGCTGTT CAATCAGCAT ACAATACAAT GATGTGGATC  
 IleIleValGly TrpAlaIle TyrProAla GlyTyrAlaAla GlyTyrLeu·  
 601 ATTATTGTAG GTTGGGCTAT ATATCCTGCT GGATATGCTG CTGGCTATTT  
 ·MetGlyGly GluSerValTyr AlaSerAsn LeuAsnLeu IleTyrAsnLeu·  
 651 GATGGGTGGA GAAAGCGTTT ATGCTTCTAA CCTTAACCTG ATATATAACC  
 · AlaAspPhe ValAsnLys IleLeuPheGly LeuIleIle TrpHisVal  
 701 TTGCTGACTT TGTTAACAAG ATTTTATTTG GTTTAATCAT TTGGCATGTT  
 AlaValLysGlu SerSerAsn Ala  
 751 GCTGTTAAAG AATCTTCTAA TGCTA

Figure 1-63

MetGlyLysLeu LeuValMet LeuGlySer ValIleAlaLeu ProSerPhe·  
 1 ATGGGTAAAT TATTAGTGAT GTTAGGTAGT GTTATTGCAC TTCCATCCTT  
 ·AlaAlaGly GlyGlyAsnLeu AspAlaAla AspValThr GlyValSerPhe·  
 51 TGCAGCTGGT GGAGGTAAC TAGATGCAGC TGATGTAACT GGTGTATCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaSer ThrValPhe PhePheIle  
 101 TTTGGCTAGT TACTGCGGCT TTA CTCTTGCTT CAACAGTATT CTTTTTTATT  
 GluArgAspArg ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGATA GAGTTTCTGC AAAATGGAAG ACATCACTAA CAGTATCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·  
 201 TTTAGTTACT GGTATTGCAT TTTGGCATT CCTTTATATG AGAGGCGTTT  
 · ValAspSer TrpThrGly ProGlyThrGly GluSerPro ThrGluPhe  
 251 GGGTTGATTC TTGGACTGGT CCAGGAACCG GAGAATCTCC AACTGAATTT  
 ArgTyrIleAsp TrpLeuLeu ThrValPro LeuLeuIleCys GluPheTyr·  
 301 AGATATATTG ATTGTTACT AACAGTACCT TTATTAATTT GTGAGTTTTA  
 ·LeuIleLeu AlaAlaAlaThr AsnValAla GlySerLeu PheLysLysLeu·  
 351 TCTAATATTA GCTGCTGCAA CAAATGTTGC TGGTTCATTA TTCAAAAAAT  
 · LeuValGly SerLeuVal MetLeuIleAla GlyTyrMet GlyGluSer  
 401 TATTAGTTGG TTCATTGGTC ATGCTTATTG CAGGATACAT GGGTGAATCT  
 GlyAsnAlaAsn ValMetIle AlaPheVal ValGlyCysLeu AlaTrpLeu·  
 451 GGTAATGCCA ATGTGATGAT TGCATTGTA GTTGGATGCT TAGCATGGTT  
 ·TyrMetIle TyrGluLeuTrp AlaGlyGlu GlyLysAla AlaCysAsnThr·  
 501 GTATATGATA TATGAATTGT GGGCTGGTGA AGGTAAAGCA GCTTGCAATA  
 · AlaSerPro AlaValGln SerAlaTyrAsn ThrMetMet TrpIleIle  
 551 CAGCAAGCCC TGCTGTTCAA TCAGCATACA ATACAATGAT GTGGATCATT  
 IleValGlyTrp AlaIleTyr ProAlaGly TyrAlaAlaGly TyrLeuMet·  
 601 ATTGTAGGTT GGGCTATATA TCCTGCTGGA TATGCTGCTG GCTATTTGAT  
 ·GlyGlyGlu SerValTyrAla SerAsnLeu AsnLeuIle TyrAsnLeuAla·  
 651 GGGTGGAGAA AGCGTTTATG CTTCTAACCT TAACCTGATA TATAACCTTG  
 · AspPheVal AsnLysIle LeuPheGlyLeu IleIleTrp HisValAla  
 701 CTGACTTTGT TAACAAGATT TTATTTGGTT TAATCATTTG GCATGTTGCT  
 ValLysGluSer SerAsnAla  
 751 GTTAAAGAAT CTTCTAATGC TA

Figure 1-64



MetGlyLysLeu LeuValMet LeuGlyGly ValIleAlaLeu ProSerPhe·  
 1 ATGGGTAAAT TATTAGTGAT GTTAGGTGGT GTTATTGCAC TTCCTTCTTT  
 ·AlaAlaGly GlyGlyAspLeu AspIleGly AspSerVal GlyValSerPhe·  
 51 TGCTGCTGGT GGTGGTGATC TAGATATAGG AGACTCCGTT GGAGTTTCAT  
 · TrpLeuVal ThrAlaAla MetLeuAlaAla ThrValPhe PhePheVal  
 101 TCTGGCTTGT TACTGCTGCT ATGTTAGCTG CTACTGTTTT CTTTTTTGTT  
 GluArgAspGln ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGACC AAGTAAGCGC AAAGTGGAAA ACATCATTA CAGTATCAGG  
 ·LeuIleThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·  
 201 TTTAATTACT GGTATTGCTT TTTGGCATT TCTTTACATG AGAGGTGTAT  
 · IleAspThr GlyGlySer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATAGATAC AGGTGGAAGC CCAACAGTAT TTAGATATAT TGATTGGTTG  
 LeuThrValPro LeuGlnMet ValGluPhe TyrLeuIleLeu AlaAlaCys·  
 301 CTAAGTGTTC CATTACAAAT GGTGAGTTT TATTTAATTC TTGCAGCTTG  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 TACTAATGTA GCTGGTTCAT TATTTAAGAA ACTGCTTGTT GGTTCATTAG  
 · MetLeuGly AlaGlyPhe AlaGlyGluAla GlyLeuAla ProAlaLeu  
 401 TAATGTTAGG TGCTGGATTT GCTGGTGAAG CTGGACTAGC TCCTGCATTG  
 ProAlaPheIle LeuGlyMet AlaGlyTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCTTTCA TACTTGGTAT GGCTGGATGG GTATACATGA TATATGAGCT  
 ·TyrMetGly GluGlyLysAla AlaValSer ThrAlaSer ProAlaValAsn·  
 501 GTATATGGGT GAAGGTAAAG CTGCGGTGAG TACTGCTAGT CCTGCCGTAA  
 · SerAlaTyr AsnAlaMet MetMetIleIle ValPheGly TrpSerIle  
 551 ATTCTGCTTA CAATGCAATG ATGATGATTA TAGTTTTTGG TTGGTCTATT  
 TyrProLeuGly TyrValAla GlyTyrLeu MetGlyAlaVal AspProSer·  
 601 TATCCACTGG GATATGTTGC TGGCTATTTA ATGGGTGCAG TAGATCCAAG  
 ·ThrLeuAsn LeuIleTyrAsn LeuAlaAsp PheIleAsn LysIleLeuPhe·  
 651 TACATTAAAT CTAATATACA ACCTTGCTGA TTTTATTAAT AAGATTTTAT  
 · GlyLeuIle IleTrpHis ValAlaValLys GluSerSer AsnAla  
 701 TCGGTTTAAT AATCTGGCAT GTTGCTGTTA AAGAATCTTC TAATGCTA

Figure 1-65

MetGlyLysLeu LeuMetIle LeuGlyGly ValIleAlaLeu ProSerPhe·  
 1 ATGGGTAAAT TATTAATGAT CTTAGGTGGT GTTATTGCAC TTCCTTCTTT  
 ·AlaAlaGly GlyGlyAspLeu AspIleGly AspSerVal GlyValSerPhe·  
 51 TGCTGCTGGT GGTGGTGATC TAGATATAGG AGACTCTGTT GGAGTTTCAT  
 · TrpLeuVal ThrAlaAla MetLeuAlaAla ThrValPhe PhePheVal  
 101 TCTGGCTTGT TACTGCTGCT ATGTTAGCTG CTACTGTTTT CTTTTTGTGTT  
 GluArgAspGln ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGACC AAGTAAGCGC AAAGTGGAAA ACATCATTAA CAGTATCAGG  
 ·LeuIleThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·  
 201 TTTAATTACT GGTATTGCTT TTTGGCATT TCTTTACATG AGAGGTGTAT  
 · IleAspThr GlyGlySer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATAGATAC AGGTGGAAGC CCAACAGTAT TTAGATATAT TGATTGGTTG  
 LeuThrValPro LeuGlnMet ValGluPhe TyrLeuIleLeu AlaAlaCys·  
 301 CTAAGTGTTC CATTACAAAT GGTGAGTTT TATTTAATTC TTGCAGCTTG  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuVal GlySerLeuVal·  
 351 TACTAATGTA GCTGGTTCAT TATTTAAGAA ACTGCTTGTT GGTTTCATTAG  
 · MetLeuGly AlaGlyPhe AlaGlyGluAla GlyLeuAla ProAlaLeu  
 401 TAATGTTAGG TGCTGGATTT GCTGGTGAAG CTGGATTAGC TCCTGCATTG  
 ProAlaPheIle LeuGlyMet AlaGlyTrp ValTyrMetIle TyrGluLeu·  
 451 CCTGCTTTCA TACTTGGTAT GGCTGGATGG GTATACATGA TATATGAGCT  
 ·TyrMetGly GluGlyLysAla AlaValSer ThrAlaSer ProAlaValAsn·  
 501 GTATATGGGT GAAGGTAAAG CTGCGGTGAG TACTGCTAGT CCTGCCGTAA  
 · SerAlaTyr AsnAlaMet MetMetIleIle ValPheGly TrpSerIle  
 551 ATTCTGCTTA CAATGCAATG ATGATGATTA TAGTTTTTGG TTGGTCTATT  
 TyrProLeuGly TyrValAla GlyTyrLeu MetGlyAlaVal AspProSer·  
 601 TATCCACTGG GATATGTTGC TGGCTATTTA ATGGGTGCAG TAGATCCAAG  
 ·ThrLeuAsn LeuIleTyrAsn LeuAlaAsp PheIleAsn LysIleLeuPhe·  
 651 TACATTAAAT CTAATATACA ACCTTGCTGA TTTTATTAAT AAGATTTTAT  
 · GlyLeuIle IleTrpHis ValAlaValLys GluSerSer AsnAla  
 701 TCGGTTTAAT AATCTGGCAT GTTGCTGTTA AAGAATCTTC TAATGCTA

Figure 1-66

MetGlyLysLeu LeuMetIle LeuGlyGly ValIleAlaLeu ProSerPhe·  
 1 ATGGGTAAAT TATTAATGAT ATTAGGTGGT GTTATTGCAC TTCCTTCTTT  
 ·AlaAlaGly GlyGlyAspLeu AspIleGly AspSerVal GlyValSerPhe·  
 51 TGCTGCTGGT GGTGGTGATC TAGATATAGG AGACTCTGTT GGAGTTTCAT  
 · TrpLeuVal ThrAlaAla MetLeuAlaAla ThrValPhe PhePheVal  
 101 TCTGGCTTGT TACTGCTGCT ATGTTAGCTG CTACTGTTTT CTTTTTGTGTT  
 GluArgAspGln ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGACC AAGTAAGCGC AAAATGGAAA ACATCATTAA CAGTATCAGG  
 ·LeuIleThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·  
 201 TTTAATAACA GGTATTGCTT TCTGGCACTA CTTGTATATG AGAGGGGTTT  
 · ValGluThr GlyAspSer ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGGTAGAAAC AGGCGATTCA CCAACTGTAT TTAGATATAT AGATTGGCTT  
 LeuThrValPro LeuGlnMet ValGluPhe TyrLeuIleLeu AlaAlaCys·  
 301 TTAAGTGTAC CACTACAAAT GGTAGAGTTT TATCTGATAT TAGCTGCATG  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuIle GlySerLeuVal·  
 351 TACCAATGTT GCTGGATCTT TATTTAAAAA GCTACTAATC GGTTTCATTGG  
 · MetLeuIle GlyGlyPhe LeuGlyGluAla GlyMetIle AspValThr  
 401 TGATGTTGAT AGGAGGTTTC CTAGGTGAAG CTGGTATGAT AGATGTAACA  
 LeuAlaPheVal IleGlyMet AlaGlyTrp LeuTyrMetIle TyrGluLeu·  
 451 CTAGCTTTTG TAATTGGAAT GGCTGGATGG CTATATATGA TCTATGAGCT  
 ·TyrMetGly GluGlyLysAla AlaValSer ThrAlaSer ProAlaValAsn·  
 501 ATACATGGGT GAAGGTAAAG CTGCGGTGAG TACTGCTAGT CCTGCCGTAA  
 · SerAlaTyr AsnAlaMet MetLeuIleIle ValValGly TrpSerIle  
 551 ATTCTGCTTA CAATGCAATG ATGCTTATTA TTGTTGTTGG TTGGTCAATC  
 TyrProAlaGly TyrValAla GlyTyrLeu MetGlyGlyGlu GlyValTyr·  
 601 TATCCTGCTG GATATGTTGC TGGCTATCTT ATGGGCGGTG AAGGAGTATA  
 ·AlaSerAsn LeuAsnLeuIle TyrAsnLeu AlaAspPhe IleAsnLysIle·  
 651 TGCCTCAAAT CTAAACTTAA TATATAACCT TGCTGATTTT ATCAACAAGA  
 · LeuPheGly LeuIleIle TrpHisValAla ValLysGlu SerSerAsn  
 701 TTCTATTTGG TTTAATTATA TGGCATGTTG CTGTTAAAGA ATCTTCTAAT  
 Ala  
 751 GCTA

Figure 1-67

MetGlyLysGln LeuLeuIle LeuGlyGly ValIleAlaLeu ProSerPhe·  
 1 ATGGGTAAAC AATTACTGAT TTTAGGTGGT GTTATTGCAC TTCCTTCGTT  
 ·AlaAlaSer GlyGlyAspLeu AspSerSer AspLeuThr GlyValSerPhe·  
 51 TGCTGCAAGT GGGGGCGATC TTGATTCTAG TGATCTTACT GGAGTTTCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaAla ThrValPhe PhePheVal  
 101 TTTGGCTTGT TACTGCTGCT CTCTTAGCTG CTACTGTTTT CTTTTTTGTT  
 GluArgAspGln ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGATC AAGTAAGTGC TAAATGGAAA ACATCACTTA CAGTTTCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·  
 201 TTTAGTTACT GGTATTGCAT TCTGGCATT TCTTTATATG AGAGGTGTGT  
 · IleGluThr GlyGluThr ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATCGAAAC TGGTGAAACG CCAACAGTAT TTAGATATAT TGATTGGTTG  
 LeuThrValPro LeuLeuMet ValGluPhe TyrLeuIleLeu AlaAlaCys·  
 301 CTAAGTGTTC CTTTGCTAAT GGTGAGTTC TACTTAATCC TTGCAGCGTG  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuGly GlySerLeuVal·  
 351 CACAAATGTT GCGGGTTCAT TATTTAAGAA ACTACTTGGT GGTTTCGCTTG  
 · MetLeuIle AlaGlyTyr MetGlyGluSer GlySerLeu ProValLeu  
 401 TAATGCTTAT TGCAGGATAT ATGGGTGAGT CTGGAAGTCT TCCAGTATTG  
 ProAlaPheIle ValGlyCys LeuAlaTrp PheTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TTGTTGGGTG CTTAGCATGG TTCTACATGA TTTATGAACT  
 ·TyrAlaGly GluGlyLysAla AlaValThr ThrAlaSer ProAlaValMet·  
 501 ATATGCTGGT GAAGGTAAGG CTGCAGTTAC TACTGCTAGT CCTGCTGTTA  
 · SerAlaTyr AsnThrMet MetLeuIleIle ValValGly TrpAlaIle  
 551 TGTCTGCATA CAATACTATG ATGTTGATTA TCGTAGTAGG TTGGGCAATT  
 TyrProAlaGly TyrAlaAla GlyTyrLeu MetGlyGlyAsp GlyValTyr·  
 601 TACCCAGCTG GATATGCTGC TGGTTACCTA ATGGGTGGTG ATGGCGTATA  
 ·AlaGlnAsn LeuAsnValIle TyrAsnLeu AlaAspPhe ValAsnLysIle·  
 651 TGCTCAGAAT TTAAACGTTA TATATAACCT TGCTGACTTT GTTAACAAGA  
 · LeuPheGly LeuValIle TrpHisValAla ValLysGlu SerSerAsn  
 701 TTTTATTTGG TTTAGTTATC TGGCATGTTG CTGTTAAAGA ATCTTCTAAT  
 Ala  
 751 GCTA

Figure 1-68

MetGlyLysLeu LeuMetIle LeuGlyGly ValIleAlaLeu ProSerPhe·  
 1 ATGGGTAAAT TATTAATGAT CTTAGGTGGT GTCATTGCGC TTCCTTCGTT  
 ·AlaAlaSer GlyGlyAspLeu AspSerSer AspLeuThr GlyValSerPhe·  
 51 TGCTGCAAGT GGTGGCGATC TTGATTCTAG TGATCTTACT GGAGTATCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaAla ThrValPhe PhePheVal  
 101 TTTGGCTTGT TACTGCTGCT CTCTTAGCTG CTACTGTTTT CTTTTTTGTT  
 GluArgAspGln ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGATC AAGTAAGTGC TAAATGAAA ACATCACTTA CAGTTTCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·  
 201 TTTAGTTACT GGTATTGCAT TCTGGCATT TCTCTATATG AGAGGTGTGT  
 · IleGluThr GlyGluThr ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATCGAAAC TGGTGAAACG CCAACAGTAT TTAGATATAT TGATTGGTTG  
 LeuThrValPro LeuLeuMet ValGluPhe TyrLeuIleLeu AlaAlaCys·  
 301 CTAAGTGTTC CGTTACTAAT GGTGAGTTC TACTTAATTC TTGCGGCTTG  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuGly GlySerLeuVal·  
 351 CACAAATGTT GCGGGCTCAT TATTAAAGAA ACTACTAGGT GGTTTCGCTTG  
 · MetLeuIle AlaGlyTyr MetGlyGluSer GlySerLeu ProValLeu  
 401 TAATGCTTAT TGCAGGATAT ATGGGTGAGT CTGGAAGTCT TCCAGTATTG  
 ProAlaPheIle ValGlyCys LeuAlaTrp PheTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TTGTTGGATG CCTAGCATGG TTCTACATGA TTTATGAACT  
 ·TyrAlaGly GluGlyLysAla AlaValThr ThrAlaSer ProAlaValMet·  
 501 ATATGCTGGT GAAGGTAAGG CTGCAGTTAC TACTGCTAGT CCTGCTGTTA  
 · SerAlaTyr AsnThrMet MetLeuIleIle ValValGly TrpAlaIle  
 551 TGTCTGCATA CAATACTATG ATGTTGATTA TCGTAGTAGG TTGGGCAATT  
 TyrProAlaGly TyrAlaAla GlyTyrLeu MetGlyGlyAsp GlyValTyr·  
 601 TACCCGGCTG GATATGCTGC TGGATACCTA ATGGGTGGTG ATGGCGTATA  
 ·AlaGlnAsn LeuAsnValIle TyrAsnLeu AlaAspPhe ValAsnLysIle·  
 651 TGCTCAGAAT TTAAACGTTA TATATAATCT TGCTGACTTT GTTAACAAGA  
 · LeuPheGly LeuValIle TrpHisValAla ValLysGlu SerSerAsn  
 701 TTTTATTTGG TTTAGTTATC TGGCATGTCG CTGTAAAGA ATCTTCTAAT  
 Ala  
 751 GCTA

Figure 1-69

MetGlyLysLeu LeuValIle LeuGlyGly ValIleAlaLeu ProProPhe·  
 1 ATGGGTAAAC TATTAGTGAT ATTAGGTGGT GTCATTGCGC TTCCTCCGTT  
 ·AlaAlaSer GlyGlyAspLeu AspSerSer AspLeuThr GlyValSerPhe·  
 51 TGCTGCAAGT GGTGGCGATC TTGATTCTAG TGATCTTACT GGAGTATCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaAla ThrValPhe PhePheVal  
 101 TTTGGCTTGT TACTGCTGCT CTCTTAGCTG CTACTGTTTT CTTTTTTGTT  
 GluArgAspGln ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGATC AAGTAAGTGC TAAATGGAAA ACATCACTTA CAGTTTCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·  
 201 TTTAGTTACT GGTATTGCAT TCTGGCATT TCTCTATATG AGAGGTGTGT  
 · IleGluThr GlyGluThr ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATCGAAAC TGCTGAAACG CCAACAGTAT TTAGATATAT TGATTGGTTG  
 LeuThrValPro LeuLeuMet ValGluPhe TyrLeuIleLeu AlaAlaCys·  
 301 CTAAGTGTTC CGTTACTAAT GGTGAGTTC TACTTAATTC TTGCAGCTTG  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuGly GlySerLeuVal·  
 351 CACAAATGTT GCGGGCTCAT TATTTAAGAA ACTACTAGGT GGTTTCGCTTG  
 · MetLeuIle AlaGlyTyr MetGlyGluSer GlySerLeu ProValLeu  
 401 TAATGCTTAT TGCAGGATAT ATGGGTGAGT CTGGAAGTCT TCCAGTATTG  
 ProAlaPheIle ValGlyCys LeuAlaTrp PheTyrMetIle TyrGluLeu·  
 451 CCTGCATTCA TTGTTGGATG CCTAGCATGG TTCTACATGA TTTATGAACT  
 ·TyrAlaGly GluGlyLysAla AlaValThr ThrAlaSer ProAlaValMet·  
 501 ATATGCTGGT GAAGGTAAGG CTGCAGTTAC TACTGCTAGT CCTGCTGTTA  
 · SerAlaTyr AsnThrMet MetLeuIleIle ValValGly TrpAlaIle  
 551 TGTCTGCATA CAATACTATG ATGTTGATTA TCGTAGTAGG TTGGGCAATT  
 TyrProAlaGly TyrAlaAla GlyTyrLeu MetGlyGlyAsp GlyValTyr·  
 601 TACCCGGCTG GATATGCTGC TGGATACCTA ATGGGTGGTG ATGGCGTATA  
 ·AlaGlnAsn LeuAsnValIle TyrAsnLeu AlaAspPhe ValAsnLysIle·  
 651 TGCTCAGAAT TTAAACGTTA TATATAATCT TGCTGACTTT GTTAACAAGA  
 · LeuPheGly LeuValIle TrpHisValAla ValLysGlu SerSerAsn  
 701 TTTTATTTGG TTTAGTTATC TGGCATGTCT CTGTAAAGA ATCTTCTAAT  
 Ala  
 751 GCTA

Figure 1-70

LeuLeuIleLeu GlyGlyVal IleAlaLeu ProSerPheAla AlaSerGly·  
 1 TTATTGATAT TAGGTGGTGT TATTGCACTT CCTTCGTTTG CTGCAAGTGG  
 ·GlyAspLeu AspSerSerAsp LeuThrGly ValSerPhe TrpLeuValThr·  
 51 GGGCGATCTT GATTCTAGTG ATCTTACTGG AGTTTCTTTT TGGCTTGTTA  
 · AlaAlaLeu LeuAlaAla ThrValPhePhe PheValGlu ArgAspGln  
 101 CTGCTGCTCT CTTAGCTGCT ACTGTTTTCT TTTTGTGTTGA AAGAGATCAA  
 ValSerAlaLys TrpLysThr SerLeuThr ValSerGlyLeu ValThrGly·  
 151 GTAAGTGCTA AATGGAAAAC ATCACTTACA GTTTCTGGTT TAGTTACTGG  
 ·IleAlaPhe TrpHisTyrLeu TyrMetArg GlyValTrp IleGluThrGly·  
 201 TATTGCATTTC TGGCATTATC TTTATATGAG AGGTGTGTGG ATCGAAACTG  
 · GluThrPro ThrValPhe ArgTyrIleAsp TrpLeuLeu ThrValPro  
 251 GTGAAACGCC AACAGTATTT AGATATATTG ATTGGTTGCT AACTGTTTCT  
 LeuLeuMetVal GluPheTyr LeuIleLeu AlaAlaCysThr AsnValAla·  
 301 TTGCTAATGG TTGAGTTCTA CTTAATCCTT GCAGCGTGCA CAAATGTTGC  
 ·GlySerLeu PheLysLysLeu LeuGlyGly SerLeuVal MetLeuIleAla·  
 351 GGGTTCATTA TTTAAGAAAC TACTTGGTGG TTCGCTTGTA ATGCTTATTG  
 · GlyTyrMet GlyGluSer GlySerLeuPro ValLeuPro AlaPheIle  
 401 CAGGATATAT GGGTGAGTCT GGAAGTCTTC CAGTATTGCC TGCATTCAAT  
 ValGlyCysLeu AlaTrpPhe TyrMetIle TyrGluLeuTyr AlaGlyGlu·  
 451 GTTGGGTGCT TAGCATGGTT CTACATGATT TATGAACTAT ATGCTGGTGA  
 ·GlyLysAla AlaValThrThr AlaSerPro AlaValMet SerAlaTyrAsn·  
 501 AGGTAAGGCT GCAGTTACTA CTGCTAGTCC TGCTGTTATG TCTGCATACA  
 · ThrMetMet LeuIleIle ValValGlyTrp AlaIleTyr ProAlaGly  
 551 ATACTATGAT GTTGATTATC GTAGTAGGTT GGGCAATTTA CCCAGCTGGA  
 TyrAlaAlaGly TyrLeuMet GlyGlyAsp GlyValTyrAla GlnAsnLeu·  
 601 TATGCTGCTG GTTACCTAAT GGGTGGTGAT GGCGTATATG CTCAGAATTT  
 ·AsnValIle TyrAsnLeuAla AspPheVal AsnLysIle LeuPheGlyLeu·  
 651 AAACGTTATA TATAACCTTG CTGACTTTGT TAACAAGATT TTATTTGGTT  
 · ValIleTrp HisValAla ValLysGluSer SerAsnAla  
 701 TAGTTATCTG GCATGTTGCT GTTAAAGAAT CTTCTAATGC TA

Figure 1-71

MetGlyLysLeu LeuLeuIle LeuGlyGly ValIleAlaLeu ProSerPhe·  
 1 ATGGGTAAAT TATTACTGAT TTAGGCGGT GTTATTGCGC TTCCTTCGTT  
 ·AlaAlaSer GlyGlyAspLeu AspSerSer AspLeuThr GlyValSerPhe·  
 51 TGCTGCAAGT GGAGGCGATC TTGATTCTAG TGATCTTACT GGAGTATCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaAla ThrValPhe PhePheVal  
 101 TTTGGCTTGT TACTGCTGCT CTCTTAGCTG CTACTGTTTT CTTTTTGTGTT  
 GluArgAspGln ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGATC AAGTAAGCGC TAAATGGAAA ACATCACTTA CAGTTTCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·  
 201 TTTAGTTACT GGTATTGCAT TCTGGCATT TCTCTATATG AGAGGTGTGT  
 · IleGluThr GlyGluThr ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATCGAAAC CGGTGAAACA CCAACAGTAT TTAGATATAT TGATTGGTTG  
 LeuThrValPro LeuLeuMet ValGluPhe TyrLeuIleLeu AlaAlaCys·  
 301 CTAAGTGTTC CGTTACTAAT GGTGAGTTC TACTTAATCC TCGCAGCTTG  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuIle GlySerLeuVal·  
 351 CACTAATGTT GCAGGTTTCAT TATTTAAGAA ACTACTAATT GGTTTCGCTTG  
 · MetLeuIle AlaGlyTyr MetGlyGluSer GlySerLeu ProValLeu  
 401 TAATGCTTAT TGCAGGATAT ATGGGTGAGT CTGGAAGTCT TCCAGTATTG  
 ProAlaPheLeu ValGlyCys AlaAlaTrp LeuTyrMetIle TyrGluLeu·  
 451 CCTGCATTCC TTGTTGGGTG CGCAGCATGG TTATACATGA TTTATGAACT  
 ·TyrAlaGly GluGlyLysAla AlaValThr ThrAlaSer ProAlaValMet·  
 501 ATATGCTGGT GAAGGTAAGG CTGCAGTTAC TACTGCTAGT CCTGCTGTTA  
 · SerAlaTyr AsnThrMet MetLeuIleIle ValValGly TrpAlaIle  
 551 TGTCTGCATA CAATACTATG ATGTTGATTA TCGTAGTAGG TTGGGCAATA  
 TyrProAlaGly TyrAlaAla GlyTyrLeu MetGlyGlyAsp GlyValTyr·  
 601 TACCCAGCTG GATATGCTGC TGGTTACTTA ATGGGTGGAG ATGGCGTATA  
 ·AlaGlnAsn LeuAsnValIle TyrAsnLeu AlaAspPhe ValAsnLysIle·  
 651 TGCTCAGAAT TTAAACGTTA TATATAACCT TGCTGACTTT GTTAACAAGA  
 · LeuPheGly LeuValIle TrpHisValAla ValLysGlu SerSerAsn  
 701 TTTTATTTGG TTTAGTTATC TGGCATGTTG CTGTAAAGA ATCTTCTAAT  
 Ala  
 751 GCTA

Figure 1-72



MetGlyLysLeu LeuLeuIle LeuGlyGly ValIleAlaLeu ProSerPhe·  
 1 ATGGGTAAAT TATTATTGAT CTTAGGCGGT GTTATTGCGC TTCCTTCGTT  
 ·AlaAlaSer GlyGlyAspLeu AspSerSer AspLeuThr GlyValSerPhe·  
 51 TGCTGCAAGT GGAGGCGATC TTGATTCTAG TGATCTTACT GGAGTATCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaAla ThrValPhe PhePheVal  
 101 TTTGGCTTGT TACTGCTGCT CTCTTAGCTG CTACTGTTTT CTTTTTGTGTT  
 GluArgAspGln ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGATC AAGTAAGCGC TAAATGGAAA ACATCACTTA CAGTTTCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·  
 201 TTTAGTTACT GGTATTGCAT TCTGGCATTA TCTCTATATG AGAGGTGTGT  
 · IleGluThr GlyGluThr ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATCGAAAC CGGTGAAACA CCAACAGTAT TTAGGTATAT TGATTGGTTG  
 LeuThrValPro LeuLeuMet ValGluPhe TyrLeuIleLeu AlaAlaCys·  
 301 CTAAGTGTTC CGTTACTAAT GGTTGAGTTC TACTTAATCC TCGCAGCTTG  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuIle GlySerLeuVal·  
 351 CACTAATGTT GCAGGTTTCAT TATTTAAGAA ACTACTAATT GGTTTCGCTTG  
 · MetLeuIle AlaGlyTyr MetGlyGluSer GlySerLeu ProValLeu  
 401 TAATGCTTAT TGCAGGATAT ATGGGTGAGT CTGGAAGTCT TCCAGTATTG  
 ProAlaPheLeu ValGlyCys AlaAlaTrp LeuTyrMetIle TyrGluLeu·  
 451 CCTGCATTCC TTGTTGGGTG CGCAGCATGG TTATACATGA TTTATGAACT  
 ·TyrAlaGly GluGlyLysAla AlaValThr ThrAlaSer ProAlaValMet·  
 501 ATATGCTGGT GAAGGTAAGG CTGCAGTTAC TACTGCTAGT CCTGCTGTTA  
 · SerAlaTyr AsnThrMet MetLeuIleIle ValValGly TrpAlaIle  
 551 TGTCTGCATA CAATACTATG ATGTTGATTA TCGTAGTAGG TTGGGCAATA  
 TyrProAlaGly TyrAlaAla GlyTyrLeu MetGlyGlyAsp GlyValTyr·  
 601 TACCCAGCTG GATATGCTGC TGGTTACTTA ATGGGTGGAG ATGGCGTATA  
 ·AlaGlnAsn LeuAsnValIle TyrAsnLeu AlaAspPhe ValAsnLysIle·  
 651 TGCTCAGAAT TTAAACGTTA TATATAACCT TGCTGACTTT GTTAACAAGA  
 · LeuPheGly LeuValIle TrpHisValAla ValLysGlu SerSerAsn  
 701 TTTTATTTGG TTTAGTTATC TGGCATGTTG CTGTAAAGA ATCTTCTAAT  
 751 C

Figure 1-73

MetGlyLysLeu LeuLeuIle LeuGlyGly ValIleAlaLeu ProSerPhe·  
 1 ATGGGTAAAT TATTACTGAT CTTAGGCGGT GTTATTGCGC TTCCTTCGTT  
 ·AlaAlaSer GlyGlyAspLeu AspSerSer AspLeuThr GlyValSerPhe·  
 51 TGCTGCAAGT GGAGGCGATC TTGATTCTAG TGATCTTACT GGAGTATCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaAla ThrValPhe PhePheVal  
 101 TTTGGCTTGT TACTGCTGCT CTCTTAGCTG CTACTGTTTT CTTTTTTGTT  
 GluArgAspGln ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGATC AAGTAAGCGC TAAATGGAAA ACATCACTTA CAGTTTCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·  
 201 TTTAGTTACT GGTATTGCAT TCTGGCATTA TCTCTATATG AGAGGTGTGT  
 · IleGluThr GlyGluThr ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATCGAAAC CGGTGAAACA CCAACAGTAT TTAGATATAT TGATTGGTTG  
 LeuThrValPro LeuLeuMet ValGluPhe TyrLeuIleLeu AlaAlaCys·  
 301 CTAAGTGTTC CGTTACTAAT GGTTGAGTTC TACTTAATCC TCGCAGCTTG  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuIle GlySerLeuVal·  
 351 CACTAATGTT GCAGGTTTCAT TATTTAAGAA ACTACTAATT GGTTTCGCTTG  
 · MetLeuIle AlaGlyTyr MetGlyGluSer GlySerLeu ProValLeu  
 401 TAATGCTTAT TGCAGGATAT ATGGGTGAGT CTGGAAGTCT TCCAGTATTG  
 ProAlaPheLeu ValGlyCys AlaAlaTrp LeuTyrMetIle TyrGluLeu·  
 451 CCTGCATTCC TTGTTGGGTG CGCAGCATGG TTATACATGA TTTATGAACT  
 ·TyrAlaGly GluGlyLysAla AlaValThr ThrAlaSer ProAlaValMet·  
 501 ATATGCTGGT GAAGGTAAGG CTGCAGTTAC TACTGCTAGT CCTGCTGTTA  
 · SerAlaTyr AsnThrMet MetLeuIleIle ValValGly TrpAlaIle  
 551 TGTCTGCATA CAATACTATG ATGTTGATTA TCGTAGTAGG TTGGGCAATA  
 TyrProAlaGly TyrAlaAla GlyTyrLeu MetGlyGlyAsp GlyValTyr·  
 601 TACCCAGCTG GATATGCTGC TGGTTACTTA ATGGGTGGAG ATGGCGTATA  
 ·AlaGlnAsn LeuAsnValIle TyrAsnLeu AlaAspPhe ValAsnLysIle·  
 651 TGCTCAGAAAT TTAAACGTTA TATATAACCT TGCTGACTTC GTTAACAAGA  
 · LeuPheGly LeuValIle TrpHisValAla ValLysGlu SerSerAsn  
 701 TTTTATTTGG TTTAGTTATC TGGCATGTTG CTGTTAAAGA ATCTTCTAAT  
 Ala  
 751 GCTA

Figure 1-74

MetGlyLysArg LeuValIle LeuGlyGly ValIleAlaLeu ProSerPhe·  
 1 ATGGGTAAAA GATTAGTGAT CTTAGGCGGT GTTATTGCGC TTCCTTCGTT  
 ·AlaAlaSer GlyGlyAspLeu AspSerSer AspLeuThr GlyValSerPhe·  
 51 TGCTGCAAGT GGAGGCGATC TTGATTCTAG TGATCTTACT GGAGTATCTT  
 · TrpLeuVal ThrAlaAla LeuLeuAlaAla ThrValPhe PhePheVal  
 101 TTTGGCTTGT TACTGCTGCT CTCTTAGCTG CTACTGTTTT CTTTTTGTGTT  
 GluArgAspGln ValSerAla LysTrpLys ThrSerLeuThr ValSerGly·  
 151 GAAAGAGATC AAGTAAGCGC TAAATGGAAA ACATCACTTA CAGTTTCTGG  
 ·LeuValThr GlyIleAlaPhe TrpHisTyr LeuTyrMet ArgGlyValTrp·  
 201 TTTAGTTACT GGTATTGCAT TCTGGCATT TCTCTATATG AGAGGTGTGT  
 · IleGluThr GlyGluThr ProThrValPhe ArgTyrIle AspTrpLeu  
 251 GGATCGAAAC CGGTGAAACA CCAACAGTAT TTAGATATAT TGATTGGTTG  
 LeuThrValPro LeuLeuMet ValGluPhe TyrLeuIleLeu AlaAlaCys·  
 301 CTAAGTGTTC CGTTACTAAT GGTTGAGTTC TACTTAATCC TCGCAGCTTG  
 ·ThrAsnVal AlaGlySerLeu PheLysLys LeuLeuIle GlySerLeuVal·  
 351 CACTAATGTT GCAGGTTTCAT TATTTAAGAA ACTACTAATT GGTTTCGCTTG  
 · MetLeuIle AlaGlyTyr MetGlyGluSer GlyAsnLeu ProValLeu  
 401 TAATGCTTAT TGCAGGATAT ATGGGTGAGT CTGGAAATCT TCCAGTATTG  
 ProAlaPheLeu IleGlyCys AlaAlaTrp LeuTyrMetIle TyrGluLeu·  
 451 CCTGCATTCC TTATTGGGTG CGCAGCATGG TTATACATGA TTTATGAACT  
 ·TyrAlaGly GluGlyLysAla AlaValThr ThrAlaSer ProAlaValMet·  
 501 ATATGCTGGT GAAGGTAAGG CTGCAGTTAC TACTGCTAGT CCTGCTGTTA  
 · SerAlaTyr AsnThrMet MetLeuIleIle ValValGly TrpAlaIle  
 551 TGTCTGCATA CAATACTATG ATGTTGATTA TCGTAGTAGG TTGGGCAATA  
 TyrProAlaGly TyrAlaAla GlyTyrLeu MetGlyGlyAsp GlyValTyr·  
 601 TACCCAGCTG GATATGCTGC TGGTTACTTA ATGGGTGGAG ATGGCGTATA  
 ·AlaGlnAsn LeuAsnValIle TyrAsnLeu AlaAspPhe ValAsnLysIle·  
 651 TGCTCAGAAT TTAAACGTTA TATATAACCT TGCTGACTTT GTTAACAAGA  
 · LeuPheGly LeuValIle TrpHisValAla ValLysGlu SerSerAsn  
 701 TTTTATTTGG TTTAGTTATC TGGCATGTTG CTGTAAAGA ATCTTCTAAT  
 Ala  
 751 GCTA

Figure 1-75

SerLysLysLeu LeuAlaThr PheLeuVal ValThrSerIle ProAlaIle.  
 1 AGCAAGAAAC TTCTTGCGAC ATTTCTAGTA GTAACATCAA TACCAGCAAT  
 ·AlaLeuAla GlyGlyHisSer SerGlyGly LeuAlaGly AspAspCysVal.  
 51 AGCATTAGCT GGTGGGCATT CATCTGGTGG TTTAGCAGGA GATGACTGCG  
 · GlyValThr PheTrpIle IleSerMetAla MetValAla SerThrVal  
 101 TAGGTGTTAC TTTCTGGATT ATTTCTATGG CTATGGTTGC TTCAACAGTA  
 PhePheIleVal GluArgAsp ArgValSer AlaLysTrpLys ThrSerLeu.  
 151 TTCTTTATTG TTGAGCGTGA CAGAGTTAGT GCGAAATGGA AAACATCATT  
 ·ThrValSer AlaLeuMetThr LeuIleAla AlaValHis TyrPheTyrMet.  
 201 AACAGTATCA GCGCTTATGA CTTTAATCGC AGCTGTTTAC TATTTCTACA  
 · ArgAspVal TrpValAla ThrGlyGluSer ProThrVal PheArgTyr  
 251 TGAGAGATGT TTGGGTAGCA ACTGGCGAAT CACCAACAGT CTTTAGATAT  
 IleAspTrpLeu LeuThrVal ProLeuLeu MetIleGluPhe TyrPheIle.  
 301 ATAGATTGGT TGTAAACAGT TCCACTTCTA ATGATTGAGT TCTACTTTAT  
 ·LeuAlaAla ValThrThrVal SerSerGly IlePheTrp ArgLeuLeuVal.  
 351 CTTAGCAGCG GTTACAACAGT TATCTTCAGG AATTTTCTGG AGATTACTAG  
 · GlyThrVal IleMetLeu ValGlyGlyTyr LeuGlyGlu AlaGlyMet  
 401 TAGGTACTGT AATAATGCTA GTAGGTGGAT ACTTAGGTGA AGCTGGAATG  
 IleSerValMet ThrGlyPhe IleIleGly MetIleGlyTrp LeuTyrIle.  
 451 ATTTCCGTAA TGACAGGTTT CATTATAGGG ATGATAGGTT GGCTATACAT  
 ·LeuTyrGlu IlePheAlaGly GluAlaSer LysAlaAsn AlaSerSerGly.  
 501 TCTTTATGAA ATCTTTGCAG GTGAAGCTAG CAAAGCAAAT GCTTCTAGTG  
 · SerAlaAla CysGlnThr AlaPheGlyAla LeuArgLeu IleValThr  
 551 GAAGTGCAGC TTGTCAAACA GCCTTTGGAG CTTTACGTTT AATCGTAACC  
 IleGlyTrpAla IleTyrPro LeuGlyTyr PheLeuGlyTyr LeuGlyGly.  
 601 ATTGGTTGGG CAATTTATCC GCTAGGATAT TTCTTAGGTT ATCTAGGCGG  
 ·GlyAlaAsp ProAlaThrLeu AsnIleVal TyrAsnLeu AlaAspPheVal.  
 651 TGGGGCAGAC CCAGCTACAT TAAACATTGT TTACAACCTTA GCTGACTTTG  
 · AsnLysIle AlaPheGly LeuIleIleTrp AlaAlaAla ValLysGlu  
 701 TAAACAAAAT TGCTTTTGGT TTAATTATAT GGGCAGCAGC TGTTAAAGAA  
 SerSerAsnAla  
 751 TCTTCTAATG CTA

Figure 1-76

SerLysLysLeu LeuAlaThr PheLeuVal ValThrSerIle ProAlaIle·  
 1 AGCAAGAAAC TTCTTGCGAC ATTTCTAGTA GTAACATCAA TACCAGCAAT  
 ·AlaLeuAla GlyGlyHisSer SerGlyGly LeuAlaGly AspAspTyrVal·  
 51 AGCATTAGCT GGTGGGCATT CATCTGGTGG TTTAGCAGGA GATGACTACG  
 · GlyValThr PheTrpIle IleSerMetAla MetValAla SerThrVal  
 101 TAGGTGTTAC TTTCTGGATT ATTTCTATGG CTATGGTTGC TTCAACAGTA  
 PhePheIleVal GluArgAsp ArgValSer AlaLysTrpLys ThrSerLeu·  
 151 TTCTTTATTG TTGAGCGTGA CAGAGTTAGT GCGAAATGGA AAACATCATT  
 ·ThrValSer AlaLeuValThr LeuIleAla AlaValHis TyrPheTyrMet·  
 201 AACAGTATCA GCGCTTGTGA CTTTAATCGC AGCTGTTTAC TATTTCTACA  
 · ArgAspVal TrpValAla ThrGlyGluSer ProThrVal PheArgTyr  
 251 TGAGAGATGT TTGGGTAGCA ACTGGCGAAT CACCAACAGT CTTTAGATAT  
 IleAspTrpLeu LeuThrVal ProLeuLeu MetIleGluPhe TyrPheIle·  
 301 ATAGATTGGT TGTTAACAGT TCCACTTCTA ATGATTGAGT TCTACTTTAT  
 ·LeuAlaAla ValThrThrVal SerSerGly IlePheTrp ArgLeuLeuVal·  
 351 CTTAGCAGCG GTTACAACAGT TATCTTCAGG AATTTTCTGG AGATTACTAG  
 · GlyThrVal IleMetLeu ValGlyGlyTyr LeuGlyGlu·AlaGlyMet  
 401 TAGGTACTGT AATAATGCTA GTAGGTGGAT ACTTAGGTGA AGCTGGAATG  
 IleSerValMet ThrGlyPhe IleIleGly MetIleGlyTrp LeuTyrIle·  
 451 ATTTCCGTAA TGACAGGTTT CATTATAGGG ATGATAGGTT GGCTATACAT  
 ·LeuTyrGlu IlePheAlaGly GluAlaSer LysAlaAsn AlaSerSerGly·  
 501 TCTTTATGAA ATCTTTGCAG GTGAAGCTAG CAAAGCAAAT GCTTCTAGTG  
 · SerAlaAla CysGlnThr AlaPheGlyAla LeuArgLeu IleValThr  
 551 GAAGTGCAGC TTGTCAAACA GCCTTTGGAG CTTTACGTTT AATCGTAACC  
 IleGlyTrpAla IleTyrPro LeuGlyTyr PheLeuGlyTyr LeuGlyGly·  
 601 ATTGGTTGGG CAATTTATCC GCTAGGATAT TTCTTAGGTT ATCTAGGCGG  
 ·GlyAlaAsp ProAlaThrLeu AsnIleVal TyrAsnLeu AlaAspPheVal·  
 651 TGGGGCAGAC CCAGCTACAT TAAACATTGT TTACAACTTA GCTGACTTTG  
 · AsnLysIle AlaPheGly LeuIleIleTrp AlaAlaAla ValLysGlu  
 701 TAAACAAAAT TGCTTTTGGT TTAATTATAT GGGCAGCAGC TGTTAAAGAA  
 SerSerAsnAla  
 751 TCTTCTAATG CTA

Figure 1-77

SerLysLysPhe PheSerThr LeuLeuLeu ValThrSerLeu ProThrLeu·  
 1 AGCAAAAAGT TTTTTCGAC GCTTCTATTA GTAACATCCT TGCCAACTTT  
 ·AlaLeuAla GlyGlyHisSer SerGlyLeu AlaGlyAsp AspTyrValGly·  
 51 AGCTTTAGCA GGTGGGCATT CATCTGGTCT TGCTGGAGAT GACTATGTAG  
 · ValThrPhe TrpIleIle SerMetAlaMet ValAlaSer ThrValPhe  
 101 GTGTTACTTT CTGGATTATT TCCATGGCTA TGGTTGCGTC AACAGTATTT  
 PheIleValGlu ArgAspArg ValSerSer LysTrpLysThr SerLeuThr·  
 151 TTCATTGTGG AGCGTGACAG AGTTAGCTCA AAATGGAAAA CATCATTAAC  
 ·ValSerAla LeuValThrLeu IleAlaAla ValHisTyr PheTyrMetArg·  
 201 AGTATCAGCT TTGGTTACAT TAATTGCTGC AGTGCATTAT TTTTATATGA  
 · AspValTrp ValAlaThr GlyGluSerPro ThrValPhe ArgTyrIle  
 251 GAGATGTATG GGTAGCAACT GGTGAATCAC CAACAGTATT TAGATATATA  
 AspTrpLeuLeu ThrValPro LeuLeuMet IleGluPheTyr PheIleLeu·  
 301 GATTGGTTAT TAACAGTGCC ACTATTAATG ATTGAGTTCT ACTTTATTTT  
 ·AlaAlaVal ThrThrValSer SerGlyIle PheTrpArg LeuLeuIleGly·  
 351 AGCAGCGGTA ACTACAGTTT CTTCAGGAAT ATTCTGGAGA CTATTAATTG  
 · ThrValVal MetLeuVal GlyGlyTyrMet GlyGluAla GlyMetIle  
 401 GTACAGTTGT AATGCTAGTA GGTGGGTATA TGGGTGAAGC TGAATGATC  
 SerValMetThr GlyPheIle IleGlyMet IleGlyTrpLeu TyrIleLeu·  
 451 TCAGTGATGA CAGGTTTCAT TATCGGGATG ATCGGTGGC TATATATTCT  
 ·TyrGluIle PheAlaGlyGlu AlaSerLys AlaAsnAla SerSerGlySer·  
 501 TTACGAAATC TTTGCTGGTG AAGCTAGTAA AGCAAACGCT TCTAGTGGAA  
 · AlaAlaCys GlnThrAla PheGlyAlaLeu ArgLeuIle ValThrVal  
 551 GCGCAGCATG CCAAACAGCA TTTGGTGCGT TACGTTTAAT CGTTACAGTT  
 GlyTrpAlaIle TyrProIle GlyTyrPhe ValGlyTyrLeu ThrGlyGly·  
 601 GGTGCGCGA TCTATCCAAT AGGATACTTC GTAGGCTATC TAACTGGTGG  
 ·GlyAlaAsp AlaAlaThrLeu AsnIleVal TyrAsnLeu AlaAspPheVal·  
 651 TGGTGCAGAC GCAGCTACAC TAAACATAGT TTACAACTTA GCTGATTTTG  
 · AsnLysIle AlaPheGly LeuIleIleTrp AlaAlaAla ValLysGlu  
 701 TAAACAAAAT TGCCTTTGGT TTAATCATAT GGGCAGCAGC TGTTAAAGAA  
 SerSerAsnAla  
 751 TCTTCTAATG CTA

Figure 1-78

SerLysLysPhe PheSerThr LeuLeuLeu ValThrSerLeu ProThrLeu·  
 1 AGCAAAAAGT TTTTTCGAC GCTTCTATTA GTAACATCCT TGCCAACTTT  
 ·AlaLeuAla GlyGlyHisSer SerGlyLeu AlaGlyAsp AspTyrValGly·  
 51 AGCTTTAGCA GGTGGGCATT CATCTGGTCT TGCTGGAGAT GACTATGTAG  
 · ValThrPhe TrpIleIle SerMetAlaMet ValAlaSer ThrValPhe  
 101 GTGTTACTTT CTGGATTATT TCCATGGCTA TGGTTGCGTC AACAGTATTT  
 PheIleValGlu ArgAspArg ValSerSer LysTrpLysThr SerLeuThr·  
 151 TTCATTGTGG AGCGTGACAG AGTTAGCTCA AAATGGAAAA CATCATTAAC  
 ·ValSerAla LeuValThrLeu IleAlaAla ValHisTyr PheTyrMetArg·  
 201 AGTATCAGCT TTGGTTACAT TAATTGCTGC AGTGCATTAT TTTTATATGA  
 · AspValTrp ValAlaThr GlyGluSerPro ThrValPhe ArgTyrIle  
 251 GAGATGTATG GGTAGCAACT GGTGAATCAC CAACAGTATT TAGATATATA  
 AspTrpLeuLeu ThrValPro LeuLeuMet IleGluPheTyr PheIleLeu·  
 301 GATTGGTTAT TAACAGTGCC ACTATTAATG ATTGAGTTCT ACTTTATTTT  
 ·AlaAlaVal ThrThrValSer SerGlyIle PheTrpArg LeuLeuIleGly·  
 351 AGCAGCGGTA ACTACAGTTT CTTCAGGAAT ATTCTGGAGA CTATTAATTG  
 · ThrValVal MetLeuVal GlyGlyTyrMet GlyGluAla GlyMetIle  
 401 GTACAGTTGT AATGCTAGTA GGTGGGTATA TGGGTGAAGC TGAATGATC  
 SerValMetThr GlyPheIle IleGlyMet IleGlyTrpLeu TyrIleLeu·  
 451 TCAGTGATGA CAGGTTTCAT TATCGGGATG ATCGGTTGGC TATATATTCT  
 ·TyrGluIle PheAlaGlyGlu AlaSerLys AlaAsnAla SerSerGlySer·  
 501 TTACGAAATC TTTGCTGGTG AAGCTAGTAA AGCAAACGCT TCTAGTGGAA  
 · AlaAlaCys GlnThrAla PheGlyAlaLeu ArgLeuIle ValThrVal  
 551 GCGCAGCATG CCAAACAGCA TTTGGTGCGT TACGTTTAAT CGTTACAGTT  
 GlyTrpAlaIle TyrProIle GlyTyrPhe ValGlyTyrLeu ThrGlyGly·  
 601 GGTGCGCGA TCTATCCAAT AGGATACTTC GTAGGCTATC TAACTGGTGG  
 ·GlyAlaAsp AlaAlaThrLeu AsnIleVal TyrAsnLeu AlaAspPheVal·  
 651 TGGTGCAGAC GCAGCTACAC TAAACATAGT TTACAACTTA GCTGATTTTG  
 · AsnLysIle AlaPheGly LeuIleIleTrp AlaAlaAla ValLysGlu  
 701 TAAACAAAAT TGCCTTTGGT TTAATCATAT GGGCAGCAGC TGTTAAAGAA  
 SerSerAsnAla  
 751 TCTTCTAATG CTA

Figure 1-79

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MetLysLeuLeu LeuIleLeu GlySerAla IleAlaLeuPro SerPheAla·
1  ATGAAATTAT TATTGATCTT AGGTAGTGCT ATTGCACTTC CATCATTTGC
  ·AlaAlaGly GlyAspLeuAsp IleSerAsp ThrValGly ValSerPheTrp·
51  TGCTGCTGGT GGCGATCTAG ATATAAGTGA TACTGTTGGT GTTTCATTCT
  · LeuValThr AlaGlyMet LeuAlaAlaThr ValPhePhe PheValGlu
101 GGCTGGTTAC AGCTGGTATG TTAGCGGCAA CTGTGTTCTT TTTTGTAGAA
  ArgAspGlnVal SerAlaLys TrpLysThr SerLeuThrVal SerGlyLeu·
151 AGAGACCAAG TCAGCGCTAA GTGGAAAACT TCACTTACTG TATCTGGTTT
  ·IleThrGly IleAlaPheTrp HisTyrLeu TyrMetArg GlyValTrpIle·
201 AATTACTGGT ATAGCTTTTT GGCATTATCT CTATATGAGA GGTGTTTGGA
  · AspThrGly AspThrPro ThrValPheArg TyrIleAsp TrpLeuLeu
251 TAGACACTGG TGATACCCCA ACAGTATTCA GATATATTGA TTGGTTATTA
  ThrValProLeu GlnMetVal GluPheTyr LeuIleLeuAla AlaCysThr·
301 ACTGTTCCAT TACAAATGGT TGAGTTCTAT CTAATTCTTG CTGCTTGTAC
  ·SerValAla AlaSerLeuPhe LysLysLeu LeuAlaGly SerLeuValMet·
351 AAGTGTGCT GCTTCATTAT TTAAGAAGCT TCTAGCTGGT TCATTAGTAA
  · LeuGlyAla GlyPheAla GlyGluAlaGly LeuAlaPro ValLeuPro
401 TGTTAGGTGC TGGATTGCA GGCGAAGCTG GATTAGCTCC TGTATTACCT
  AlaPheIleIle GlyMetAla GlyTrpLeu TyrMetIleTyr GluLeuTyr·
451 GCTTTCATTA TTGGTATGGC TGGATGGTTA TACATGATTT ATGAGCTATA
  ·MetGlyGlu GlyLysAlaAla ValSerThr AlaSerPro AlaValAsnSer·
501 TATGGGTGAA GGTAAGGCTG CTGTAAGTAC TGCAAGTCCT GCTGTAACT
  · AlaTyrAsn AlaMetMet MetIleIleVal ValGlyTrp AlaIleTyr
551 CTGCATACAA CGCAATGATG ATGATTATTG TTGTTGGATG GGCAATTTAT
  ProAlaGlyTyr AlaAlaGly TyrLeuMet GlyGlyGluGly ValTyrAla·
601 CCTGCTGGAT ATGCTGCTGG TTACCTAATG GGTGGCGAAG GTGTATACGC
  ·SerAsnLeu AsnLeuIleTyr AsnLeuAla AspPheVal AsnLysIleLeu·
651 TTCAAACCTTA AACCTTATAT ATAACCTTGC TGACTTTGTT AACAAGATTC
  · PheGlyLeu IleIleTrp AsnValAlaVal LysGluSer SerAsnAla
701 TATTTGGTTT GATCATTTGG AATGTTGCAG TTAAAGAATC TAGTAATGCT

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Figure 1-80



MetLysValLeu MetLeuAsn ProGlyAsp HisValAlaIle SerPheTrp·  
 1 ATGAAAGTAT TAATGCTAAA TCCCGGAGAT CACGTTGCGA TTTCGTTTTG  
 ·LeuIleSer MetAlaMetVal AlaAlaThr AlaPhePhe PheLeuGluArg·  
 51 GTTGATCTCT ATGGCCATGG TTGCCGCTAC TGCTTTCTTC TTTCTTGAAA  
 · AspArgVal AlaAlaLys TrpLysThrSer LeuThrVal AlaGlyLeu  
 101 GAGATCGTGT AGCAGCTAAA TGGAAAACGT CCCTTACAGT AGCTGGTTTA  
 ValThrGlyIle AlaAlaTrp HisTyrPhe TyrMetArgGly ValTrpVal·  
 151 GTTACTGGTA TTGCGGCGTG GCACTACTTC TACATGAGAG GCGTATGGGT  
 ·AlaThrGly AspSerProThr ValLeuArg TyrIleAsp TrpLeuIleThr·  
 201 TGCTACTGGT GACTCACCAA CTGTCCTTCG TTACATTGAC TGGTTGATTA  
 · ValProLeu GlnIleVal GluPheTyrVal IleLeuAla AlaMetThr  
 251 CTGTGCCTCT ACAAATCGTA GAATTCTACG TAATTCTTGC AGCGATGACT  
 AlaValAlaSer SerLeuPhe TrpArgLeu LeuIleAlaSer IleIleMet·  
 301 GCTGTTGCTT CAAGCCTTTT CTGGAGACTA TTAATTGCAT CAATTATTAT  
 ·LeuValPhe GlyTyrMetGly GluThrGly AlaMetAsn ValThrLeuAla·  
 351 GCTTGTCTTT GGTACATGG GTGAAACTGG AGCGATGAAT GTAACCTCTAG  
 · PheValIle GlyMetAla GlyTrpLeuTyr IleIleTyr GluValPhe  
 401 CCTTCGTAAT AGGTATGGCT GGATGGTTAT ACATCATCTA CGAGGTTTTT  
 AlaGlyGluAla SerLysAla SerAlaGly SerGlyAsnAla AlaGlyGln·  
 451 GCAGGTGAAG CAAGCAAGGC AAGTGCTGGT AGTGGAAACG CTGCTGGTCA  
 ·ThrAlaPhe AsnAlaLeuArg LeuIleVal ThrValGly TrpAlaIleTyr·  
 501 GACTGCATTT AACGCATTGA GATTAATTGT TACAGTAGGA TGGGCAATTT  
 · ProIleGly TyrAlaVal GlyTyrPheGly GlyGlyVal AspAlaGly  
 551 ATCCAATTGG TTATGCTGTA GGTTACTTCG GTGGTGGCGT AGACGCCGGT  
 SerLeuAsnLeu IleTyrAsn LeuAlaAsp PheValAsnLys IleAlaPhe·  
 601 TCATTGAACT TAATCTATAA CCTTGCAGAC TTTGTTAATA AAATTGCATT  
 ·GlyMetAla IleTyrValAla AlaValSer AspSerAsn  
 651 TGGTATGGCT ATTTATGTAG CTGCAGTATC AGACAGCAAC

Figure 1-81

MetLysLeuLeu LeuIleLeu GlySerVal IleAlaLeuPro ThrPheAla·  
 1 ATGAAATTAT TACTGATATT AGGTAGTGTT ATTGCACTTC CTACATTTGC  
 ·AlaGlyGly GlyAspLeuAsp AlaSerAsp TyrThrGly ValSerPheTrp·  
 51 TGCAGGTGGT GGTGACCTTG ATGCTAGTGA TTACACTGGT GTTTCTTTTT  
 · LeuValThr AlaAlaLeu LeuAlaSerThr ValPhePhe PheValGlu  
 101 GGTTAGTTAC TGCTGCTTTA TTAGCATCTA CTGTATTTTT CTTTGTGAA  
 ArgAspArgVal SerAlaLys TrpLysThr SerLeuThrVal SerGlyLeu·  
 151 AGAGATAGAG TTTCTGCAAA ATGGAAAACA TCATTAAGTG TATCTGGTCT  
 ·ValThrGly IleAlaPheTrp LysTyrMet TyrMetArg GlyValTrpIle·  
 201 TGTTACTGGT ATTGCTTTCT GGAAATACAT GTACATGAGA GGGGTATGGA  
 · GluThrGly AspSerPro ThrValPheArg TyrIleAsp TrpLeuLeu  
 251 TTGAAACTGG TGATTCGCCA ACTGTATTTA GATACATTGA TTGGTTACTA  
 ThrValProLeu LeuIleCys GluPheTyr LeuIleLeuAla AlaAlaThr·  
 301 ACAGTTCCTC TATTAATATG TGAATTCTAC TTAATTCTTG CTGCTGCAAC  
 ·AsnValAla GlySerLeuPhe LysLysLeu LeuValGly SerLeuValMet·  
 351 TAATGTTGCT GGATCATTAT TTAAGAAATT ACTAGTTGGT TCTCTTGTTA  
 · LeuValPhe GlyTyrMet GlyGluAlaGly IleMetAla AlaTrpPro  
 401 TGCTTGTGTT TGGTTACATG GGTGAAGCAG GAATCATGGC TGCATGGCCT  
 AlaPheIleIle GlyCysLeu AlaTrpVal TyrMetIleTyr GluLeuTrp·  
 451 GCATTCATTA TTGGGTGTTT AGCTTGGGTA TACATGATTT ATGAATTATG  
 ·AlaGlyGlu GlyLysSerAla CysAsnThr AlaSerPro AlaValGlnSer·  
 501 GGCTGGAGAA GGAAAATCTG CATGTAATAC TGCAAGTCCT GCTGTGCAAT  
 · AlaTyrAsn ThrMetMet TyrIleIleIle PheGlyTrp AlaIleTyr  
 551 CAGCTTACAA CACAATGATG TATATTATCA TCTTTGGTTG GGCGATTTAT  
 ProValGlyTyr PheThrGly TyrLeuMet GlyAspGlyGly SerAlaLeu·  
 601 CCTGTAGGTT ATTTACACAGG TTACCTGATG GGTGACGGTG GATCAGCTCT  
 ·AsnLeuAsn LeuIleTyrAsn LeuAlaAsp PheValAsn LysIleLeuPhe·  
 651 TAACTTAAAC CTTATCTATA ACCTTGCTGA CTTTGTTAAC AAGATTCTAT  
 · GlyLeuIle IleTrpAsn ValAlaValLys GluSerSer AsnAla\*\*\*  
 701 TTGGTTTAAT TATATGGAAT GTTGCTGTGA AAGAATCTTC TAATGCTTAA

Figure 2-1

MetLysLeuLeu LeuIleLeu GlySerVal IleAlaLeuPro ThrPheAla·  
 1 ATGAAATTAT TACTGATATT AGGTAGTGTT ATTGCACTTC CTACATTGTC  
 ·AlaGlyGly GlyAspLeuAsp AlaSerAsp TyrThrGly ValSerPheTrp·  
 51 TGCAGGTGGT GGTGACCTTG ATGCTAGTGA TTACACTGGT GTTTCTTTTT  
 · LeuValThr AlaAlaLeu LeuAlaSerThr ValPhePhe PheValGlu  
 101 GGTTAGTTAC TGCTGCTTTA TTAGCATCTA CTGTATTTTT CTTTGTGAA  
 ArgAspArgVal SerAlaLys TrpLysThr SerLeuThrVal SerGlyLeu·  
 151 AGAGATAGAG TTTCTGCAAA ATGGAAAACA TCATTAAGTG TATCTGGTCT  
 ·ValThrGly IleAlaPheTrp AsnTyrMet TyrMetArg GlyValTrpIle·  
 201 TGTTACTGGT ATTGCTTTCT GGAATTACAT GTACATGAGA GGGGTATGGA  
 · GluThrGly AspSerPro ThrValPheArg TyrIleAsp TrpLeuLeu  
 251 TTGAACTGG TGATTCGCCA ACTGTATTTA GATACATTGA TTGGTTACTA  
 ThrValProLeu LeuIleCys GluPheTyr LeuIleLeuAla AlaAlaThr·  
 301 ACAGTTCCTC TATTAATATG TGAATTCTAC TTAATTCTTG CTGCTGCAAC  
 ·AsnValAla GlySerLeuPhe LysLysLeu LeuValGly SerLeuValMet·  
 351 TAATGTTGCT GGATCATTAT TTAAGAAATT ACTAGTTGGT TCTCTTGTTA  
 · LeuValPhe GlyTyrMet GlyGluAlaGly IleMetAla AlaTrpPro  
 401 TGCTTGTGTT TGGTTACATG GGTGAAGCAG GAATCATGGC TGCATGGCCT  
 AlaPheIleIle GlyCysLeu AlaTrpVal TyrMetIleTyr GluLeuTrp·  
 451 GCATTCATTA TTGGGTGTTT AGCTTGGGTA TACATGATTT ATGAATTATG  
 ·AlaGlyGlu GlyLysSerAla CysAsnThr AlaSerPro AlaValGlnSer·  
 501 GGCTGGAGAA GGAAAATCTG CATGTAATAC TGCAAGTCCT GCTGTGCAAT  
 · AlaTyrAsn ThrMetMet TyrIleIleIle PheGlyTrp AlaIleTyr  
 551 CAGCTTACAA CACAATGATG TATATTATCA TCTTTGGTTG GGCGATTTAT  
 ProValGlyTyr PheThrGly TyrLeuMet GlyAspGlyGly SerAlaLeu·  
 601 CCTGTAGGTT ATTTACAGG TTACCTGATG GGTGACGGTG GATCAGCTCT  
 ·AsnLeuAsn LeuIleTyrAsn LeuAlaAsp PheValAsn LysIleLeuPhe·  
 651 TAACTTAAAC CTTATCTATA ACCTTGCTGA CTTTGTTAAC AAGATTCTAT  
 · GlyLeuIle IleTrpAsn ValAlaValLys GluSerSer AsnAla\*\*\*  
 701 TTGGTTTAAT TATATGGAAT GTTGCTGTTA AAGAATCTTC TAATGCTTAA

Figure 2-2

MetLysLeuLeu LeuIleLeu GlySerVal IleAlaLeuPro ThrPheAla·  
 1 ATGAAATTAT TACTGATATT AGGTAGTGTT ATTGCACTTC CTACATTTGC  
 ·AlaGlyGly GlyAspLeuAsp AlaSerAsp TyrThrGly ValSerPheTrp·  
 51 TGCAGGTGGT GGTGACCTTG ATGCTAGTGA TTACACTGGT GTTTCTTTTT  
 · LeuValThr AlaAlaLeu LeuAlaSerThr ValPhePhe PheValGlu  
 101 GGTTAGTTAC TGCTGCTTTA TTAGCATCTA CTGTATTTTT CTTTGTTGAA  
 ArgAspArgVal SerAlaLys TrpLysThr SerLeuThrVal SerGlyLeu·  
 151 AGAGATAGAG TTTCTGCAAA ATGGAAAACA TCATTAAGTCT TATCTGGTCT  
 ·ValThrGly IleAlaPheTrp GlnTyrMet TyrMetArg GlyValTrpIle·  
 201 TGTTACTGGT ATTGCTTTCT GGCAGTACAT GTACATGAGA GGGGTATGGA  
 · GluThrGly AspSerPro ThrValPheArg TyrIleAsp TrpLeuLeu  
 251 TTGAACTGG TGATTCGCCA ACTGTATTTA GATACATTGA TTGGTTACTA  
 ThrValProLeu LeuIleCys GluPheTyr LeuIleLeuAla AlaAlaThr·  
 301 ACAGTTCCTC TATTAATATG TGAATTCTAC TTAATTCTTG CTGCTGCAAC  
 ·AsnValAla GlySerLeuPhe LysLysLeu LeuValGly SerLeuValMet·  
 351 TAATGTTGCT GGATCATTAT TTAAGAAATT ACTAGTTGGT TCTCTTGTTA  
 · LeuValPhe GlyTyrMet GlyGluAlaGly IleMetAla AlaTrpPro  
 401 TGCTTGTTGTT TGGTTACATG GGTGAAGCAG GAATCATGGC TGCATGGCCT  
 AlaPheIleIle GlyCysLeu AlaTrpVal TyrMetIleTyr GluLeuTrp·  
 451 GCATTCATTA TTGGGTGTTT AGCTTGGGTA TACATGATTT ATGAATTATG  
 ·AlaGlyGlu GlyLysSerAla CysAsnThr AlaSerPro AlaValGlnSer·  
 501 GGCTGGAGAA GGAAAATCTG CATGTAATAC TGCAAGTCCT GCTGTGCAAT  
 · AlaTyrAsn ThrMetMet TyrIleIleIle PheGlyTrp AlaIleTyr  
 551 CAGCTTACAA CACAATGATG TATATTATCA TCTTTGGTTG GGCGATTTAT  
 ProValGlyTyr PheThrGly TyrLeuMet GlyAspGlyGly SerAlaLeu·  
 601 CCTGTAGGTT ATTTACACAGG TTACCTGATG GGTGACGGTG GATCAGCTCT  
 ·AsnLeuAsn LeuIleTyrAsn LeuAlaAsp PheValAsn LysIleLeuPhe·  
 651 TAACTTAAAC CTTATCTATA ACCTTGCTGA CTTTGTTAAC AAGATTCTAT  
 · GlyLeuIle IleTrpAsn ValAlaValLys GluSerSer AsnAla\*\*\*  
 701 TTGGTTTAAT TATATGGAAT GTTGCTGTGA AAGAATCTTC TAATGCTTAA

Figure 2-3

ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·  
 1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC  
 ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·  
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT  
 · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe  
 101 CATTCTGGCT GGTTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT  
 ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu AlaValSer·  
 151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTGCTGTATC  
 ·GlyLeuIle ThrGlyIleAla PheTrpLys TyrLeuTyr MetArgGlyVal·  
 201 TGGTTTAATT ACTGGTATAG CTTTTTGGA ATATCTCTAT ATGAGAGGTG  
 · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp  
 251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG  
 LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·  
 301 TTATTAAGTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC  
 ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·  
 351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT  
 · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal  
 401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA  
 LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·  
 451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA  
 ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·  
 501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG  
 · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla  
 551 TTAACCTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA  
 IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·  
 601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT  
 ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp LeuValAsnLys·  
 651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCCGAC CTTGTTAACA  
 · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer  
 701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTAA AGAATCTTCT  
 AsnAla  
 751 AATGCT

Figure 2-4

```

      ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
1  ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
   ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
51  ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
   · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101 CATTCTGGCT GGTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT
   ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu AlaValSer·
151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTGCTGTATC
   ·GlyLeuIle ThrGlyIleAla PheTrpAsn TyrLeuTyr MetArgGlyVal·
201 TGGTTTAATT ACTGGTATAG CTTTTTGGAA TTATCTCTAT ATGAGAGGTG
   · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp
251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG
   LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
301 TTATTAAGTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC
   ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
   · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA
   LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTATGA
   ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
   · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla
551 TTAAGTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA
   IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·
601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT
   ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp LeuValAsnLys·
651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCCGAC CTTGTTAACA
   · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTAA AGAATCTTCT
   AsnAla
751 AATGCT

```

Figure 2-5

ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·  
 1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC  
 ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·  
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTC  
 · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe  
 101 CATTCTGGCT GGTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT  
 ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu AlaValSer·  
 151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTGCTGTATC  
 ·GlyLeuIle ThrGlyIleAla PheTrpGln TyrLeuTyr MetArgGlyVal·  
 201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA GTATCTCTAT ATGAGAGGTG  
 · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp  
 251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG  
 LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·  
 301 TTATTAAGTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC  
 ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·  
 351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT  
 · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal  
 401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA  
 LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·  
 451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA  
 ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·  
 501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG  
 · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla  
 551 TTAACCTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA  
 IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·  
 601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT  
 ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp LeuValAsnLys·  
 651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCCGAC CTTGTTAACA  
 · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer  
 701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTAA AGAATCTTCT  
 AsnAla  
 751 AATGCT

Figure 2-6

```

      ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
1  ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
   ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
51  ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
   · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101 CATTCTGGCT GGTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT
   ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu AlaValSer·
151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTGCTGTATC
   ·GlyLeuIle ThrGlyIleAla PheTrpGlu TyrLeuTyr MetArgGlyVal·
201 TGGTTTAATT ACTGGTATAG CTTTTTGGGA ATATCTCTAT ATGAGAGGTG
   · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp
251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG
   LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
301 TTATTAAGTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC
   ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
   · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA
   LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTATGA
   ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
   · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla
551 TTAACCTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA
   IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·
601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT
   ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp LeuValAsnLys·
651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCCGAC CTTGTTAACA
   · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTAA AGAATCTTCT
   AsnAla
751 AATGCT

```

Figure 2-7



ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·  
 1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC  
 ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·  
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT  
 · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe  
 101 CATTCTGGCT GGTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT  
 ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu AlaValSer·  
 151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTGCTGTATC  
 ·GlyLeuIle ThrGlyIleAla PheTrpTrp TyrLeuTyr MetArgGlyVal·  
 201 TGGTTTAATT ACTGGTATAG CTTTTTGGTG GTATCTCTAT ATGAGAGGTG  
 · TrpIleAsp ThrGlyAsp ThrProThrVal PheArgTyr IleAspTrp  
 251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCAGATA TATTGATTGG  
 LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·  
 301 TTATTAAGT TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC  
 ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·  
 351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT  
 · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal  
 401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA  
 LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·  
 451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA  
 ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·  
 501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG  
 · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla  
 551 TTAAGTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA  
 IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·  
 601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT  
 ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp LeuValAsnLys·  
 651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCCGAC CTTGTTAACA  
 · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer  
 701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTAA AGAATCTTCT  
 AsnAla  
 751 AATGCT

Figure 2-8

ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·  
 1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC  
 ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·  
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT  
 · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe  
 101 CATTCTGGCT GGTTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT  
 ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu AlaValSer·  
 151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTGCTGTATC  
 ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·  
 201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAT ATGAGAGGTG  
 · TrpIleAsp ThrGlyAsp ThrProThrVal PheAlaTyr IleAspTrp  
 251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCGCATA TATTGATTGG  
 LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·  
 301 TTATTAAGT TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC  
 ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·  
 351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT  
 · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal  
 401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA  
 LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·  
 451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA  
 ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·  
 501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG  
 · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla  
 551 TTAACCTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA  
 IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·  
 601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT  
 ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp LeuValAsnLys·  
 651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCCGAC CTTGTTAACA  
 · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer  
 701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTAA AGAATCTTCT  
 AsnAla  
 751 AATGCT

Figure 2-9

```

      ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·
1  ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC
   ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·
51  ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT
   · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe
101 CATTCTGGCT GGTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT
   ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu AlaValSer·
151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTGCTGTATC
   ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·
201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAT ATGAGAGGTG
   · TrpIleAsp ThrGlyAsp ThrProThrVal PheGluTyr IleAspTrp
251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCGAATA TATTGATTGG
   LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·
301 TTATTAAGTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC
   ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·
351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT
   · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal
401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA
   LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·
451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGGTTATACA TGATTTATGA
   ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·
501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG
   · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla
551 TTAAGTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA
   IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·
601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT
   ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp LeuValAsnLys·
651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCCGAC CTTGTTAACA
   · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer
701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTAA AGAATCTTCT
   AsnAla
751 AATGCT

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Figure 2-10

ThrMetGlyLys LeuLeuLeu IleLeuGly SerAlaIleAla LeuProSer·  
 1 ACCATGGGTA AATTATTACT GATATTAGGT AGTGCTATTG CACTTCCATC  
 ·PheAlaAla AlaGlyGlyAsp LeuAspIle SerAspThr ValGlyValSer·  
 51 ATTTGCTGCT GCTGGTGGCG ATCTAGATAT AAGTGATACT GTTGGTGTTT  
 · PheTrpLeu ValThrAla GlyMetLeuAla AlaThrVal PhePhePhe  
 101 CATTCTGGCT GGTTACAGCT GGTATGTTAG CGGCAACTGT GTTCTTTTTT  
 ValGluArgAsp GlnValSer AlaLysTrp LysThrSerLeu AlaValSer·  
 151 GTAGAAAGAG ACCAAGTCAG CGCTAAGTGG AAAACTTCAC TTGCTGTATC  
 ·GlyLeuIle ThrGlyIleAla PheTrpHis TyrLeuTyr MetArgGlyVal·  
 201 TGGTTTAATT ACTGGTATAG CTTTTTGGCA TTATCTCTAT ATGAGAGGTG  
 · TrpIleAsp ThrGlyAsp ThrProThrVal PheGlnTyr IleAspTrp  
 251 TTTGGATAGA CACTGGTGAT ACCCCAACAG TATTCCAATA TATTGATTGG  
 LeuLeuThrVal ProLeuGln MetValGlu PheTyrLeuIle LeuAlaAla·  
 301 TTATTAAGTG TTCCATTACA AATGGTTGAG TTCTATCTAA TTCTTGCTGC  
 ·CysThrSer ValAlaAlaSer LeuPheLys LysLeuLeu AlaGlySerLeu·  
 351 TTGTACAAGT GTTGCTGCTT CATTATTTAA GAAGCTTCTA GCTGGTTCAT  
 · ValMetLeu GlyAlaGly PheAlaGlyGlu AlaGlyLeu AlaProVal  
 401 TAGTAATGTT AGGTGCTGGA TTTGCAGGCG AAGCTGGATT AGCTCCTGTA  
 LeuProAlaPhe IleIleGly MetAlaGly TrpLeuTyrMet IleTyrGlu·  
 451 TTACCTGCTT TCATTATTGG TATGGCTGGA TGTTTATACA TGATTTATGA  
 ·LeuTyrMet GlyGluGlyLys AlaAlaVal SerThrAla SerProAlaVal·  
 501 GCTATATATG GGTGAAGGTA AGGCTGCTGT AAGTACTGCA AGTCCTGCTG  
 · AsnSerAla TyrAsnAla MetMetMetIle IleValVal GlyTrpAla  
 551 TTAAGTCTGC ATACAACGCA ATGATGATGA TTATTGTTGT TGGATGGGCA  
 IleTyrProAla GlyTyrAla AlaGlyTyr LeuMetGlyGly GluGlyVal·  
 601 ATTTATCCTG CTGGATATGC TGCTGGTTAC CTAATGGGTG GCGAAGGTGT  
 ·TyrAlaSer AsnLeuAsnLeu IleTyrAsn LeuAlaAsp LeuValAsnLys·  
 651 ATACGCTTCA AACTTAAACC TTATATATAA CCTTGCCGAC CTTGTTAACA  
 · IleLeuPhe GlyLeuIle IleTrpAsnVal AlaValLys GluSerSer  
 701 AGATTCTATT TGGTTTGATC ATTTGGAATG TTGCTGTTAA AGAATCTTCT  
 AsnAla  
 751 AATGCT

Figure 2-11

	1		50
BAC31A8	.MKLLLLILG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
BAC40E8	TMGKLLLLILG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
BAC64A5	TMGKLLLLILG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
HOT0m1	TMGKLLLLILG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
HOT75m1	TMGKLLLLILG	SAIALPSFAA	AGGD...LD ISDTVGVSFW LVTAGMLAAT
HOT75m3	TMGKLLLLILG	SAIALPSFAA	AGGD...LD ISDTVGVSFW LVTAGMLAAT
HOT75m4	TMGKLLLLILG	SAIALPSFAA	AGGD...LD ISDTVGVSFW LVTAGMLAAT
HOT75m8	TMGKLLLLILG	SAIALPSFAA	AGGD...LD ISDTVGVSFW LVTAGMLAAT
MB0m1	TMGKLLLLILG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
MB0m2	TMGKLLLLILG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
MB100m10	TMGKLLLLILG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
MB100m5	TMGKLLLLILG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
MB100m7	TMGKLLLLILG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
MB100m9	TMGKLLLLILG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
MB20m12	TMGKLLLLILG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
MB20m2	TMGKLLLLILG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
MB20m5	TMGKLLLLILG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
MB40m1	TMGKLLLIIG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
MB40m12	TMGKLLRIIG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
MB40m5	TMGKLLLLILG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
MED101	.MGKLLLLILG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
MED102	.MGKLLLLILG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
MED106	.MGKLLLLILG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
MED202	.MGKLLLLILG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
MED204	.MGKLLLLILG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
MED208	.MGKLLLLILG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
MED25	.MGKLLLLILG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
MED26	.MGKLLLLILG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
MED27	.MGKLLLLILG	NVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
MED36	.MGKLLLLILG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
medA15_r8_1	.MGKLLMMLG	SVIALPSFAA	SGGD...LD ASDYTGVSFW LVTAALLAST
medA15_R8_3	.MGKLLMILG	GVIALPSFAA	SGGD...LD SSDLTGVSFW LVTAALLAAT
medA15_r8ex7	.MGKLLLLILG	GVIALPSFAA	SGGD...LD SSDLTGVSFW LVTAALLAAT
medA15_R8ex9	.MGKLLLLILG	GVIALPSFAA	SGGD...LD SSDLTGVSFW LVTAALLAAT
medA15_r9_3	.MGKRLVILG	GVIALPSFAA	SGGD...LD SSDLTGVSFW LVTAALLAAT
medA15r10b5	.MGKLLVILG	GVIALPPFAA	SGGD...LD SSDLTGVSFW LVTAALLAAT
medA15r11b3	.MGKQLLILG	SVIALPSFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
medA15r11b9	.MGKALLMLG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAAPLAST
medA15r8b3	.MGKLLLLILG	SVIALPSFAA	GGGD...LD AGDYTGVSFW LVTAALLAST
medA15r8b8	.SKKFFSTLL	LVTSLPTLAL	AGGHSSG.LA GDDYVGVTFW IISMAMVAST
medA15r8b9	.MGKLLVMLG	SVIALPSFAA	GGGN...LD AADVTGVSFW LVTAALLAST
medA15r8ex4	.SKKFFSTLL	LVTSLPTLAL	AGGHSSG.LA GDDYVGVTFW IISMAMVAST
medA15r8ex6	.MGKLLVMLG	SVIALPTFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
medA15r9b5	.MGKGLLMLG	SVIALPSFAA	GGGD...LD ASDYTGVSFW LVTAALLAST
medA15r9b7	.MGKQLLILG	GVIALPSFAA	SGGD...LD SSDLTGVSFW LVTAALLAAT
medA17_r8_11	.SKKLLATFL	VVTSIPAIAL	AGGHSSGGLA GDDYVGVTFW IISMAMVAST
medA17_r8_15	.SKKLLATFL	VVTSIPAIAL	AGGHSSGGLA GDDCVGVTFW IISMAMVAST
medA17_R8_6	.MGKLLMILG	GVIALPSFAA	GGGD...LD IGDSVGVSFW LVTAAMLAAT
medA17R9_1	.MGKGLLMLG	SVIALPSFAA	GGGN...LN AADVTGVSFW LVTAALLAST
medA19_R8_16	.MGKLLVMLG	GVIALPSFAA	GGGD...LD IGDSVGVSFW LVTAAMLAAT
medA19_R8_19	.MGKLLMILG	GVIALPSFAA	GGGD...LD IGDSVGVSFW LVTAAMLAAT
medA19_R8_20	.MGKLLLLILG	GVIALPSFAA	SGGD...LD SSDLTGVSFW LVTAALLAAT
medA19_r9_9	....LLILG	GVIALPSFAA	SGGD...LD SSDLTGVSFW LVTAALLAAT
PalB1	TMGKLLLLILG	SAIALPSFAA	AGGD...LD ISDTVGVSFW LVTAGMLAAT
PalB2	TMGKLLLLILG	SAIALPSFAA	AGGD...LD ISDTVGVSFW LVTAGMLAAT
PalB5	TMGKLLLLILG	SAIALPSFAA	AGGD...LD ISDTVGVSFW LVTAGMLAAT
PalB6	TMGKLLLLILG	SAIALPSFAA	AGGD...LD ISDTVGVSFW LVTAGMLAAT
PalB7	TMGKLLLLILG	SAIALPSFAA	AGGD...LD ISDTVGVSFW LVTAGMLAAT
PalB8	TMGKLLLLILG	SAIALPSFAA	AGGD...LD ISDTVGVSFW LVTAGMLAAT
PalE1	TMGKLLLLILG	SAIALPSFAA	AGGD...LD ISDTVGVSFW LVTAGMLAAT
PalE6	TMGKLLLLILG	SAIALPSFAA	AGGD...LD ISDTVGVSFW LVTAGMLAAT

Figure 3-1

PalE7	TMGKLLLILG	SAIALPSFAA	AGGD....LD	ISDTVGVSFW	LVTAGMLAAT
RED19	.MGKLLLILG	SVIALPTFAA	GGGD....LD	ASDYGVSFW	LVTAAALLAST
RED2	.MGKLLLILG	SVIALPTFAA	GGGD....LD	ASDYGVSFW	LVTAAALLAST
RED23	.MGKLLLILG	SVIALPTFAA	GGGD....LD	ASDYGVSFW	LVTAAALLAST
RED27	.MGKLLLILG	SVIALPTFAA	GGGD....LD	ASDYGVSFW	LVTAAALLAST
RED30	.MGKLLLILG	SVIALPTFAA	GGGD....LD	ASDYGVSFW	LVTAAALLAST
RED4	.MGKLLRLG	SVIALPTFAA	GGGD....LD	ASDYGVSFW	LVTAAALLAST
RED5	.MGKLLLILG	SVIALPTFAA	GGGD....LD	ASDYGVSFW	LVTAAALLAST
REDA9	.MGKLLLILG	SVIALPTFAA	GGGD....LD	ASDYGVSFW	LVTAAALLAST
REDB9	.MGKLLLILG	SVIALPTFAA	GGGD....LD	ASDYGVSFW	LVTAAALLAST
REDF9	.MGKLLLILG	SVIALPTFAA	GGGD....LD	ASDYGVSFW	LVTAAALLAST
REDr6a5a14	.MGKLLLILG	SVIALPTFAA	GGGD....PD	ASDYGVSFW	LVTAAALLAST
REDr6a5a6	.MGKLLLILG	SVIALPTFAA	GGGD....LD	ASDYGVSFW	LVTAAALLAST
REDr7_1_15	.MGKLLLILG	SVIALPTFAA	GGGD....LD	ASGYTGVSW	LVTAAALLAST
REDr7_1_16	.MGKRLVILG	SVIALPTFAA	GGGD....LD	ASDYGVSFW	LVTAAALLAST
REDr7_1_4	.MGKLLLILG	SVIALPTFAA	GGGD....LD	ASDYGVSFW	LVTAAALLAST
REDs3_15	.MGKLLLILG	SVIALPTFAA	GGGD....LD	ASDYGVSFW	LVTAAALLAST
REDs3_7	.MGKLLLILG	SVIALPTFAA	GGGD....LD	ASDYGVSFW	LVTAAALLAST
ANT32C12	.MKLLLILG	SAIALPSFAA	AGGD....LD	ISDTVGVSFW	LVTAGMLAAT
HOT2C02	.....	.....MKVLM	NPGD.....	...HVAISFW	LISMAMVAAT
51					
BAC31A8	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGDSF....
BAC40E8	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGDSF....
BAC64A5	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGDSF....
HOT0m1	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGDSF....
HOT75m1	VFFFVERDQV	SAKWKTSMTV	SGLITGIAFW	HYLYMRGVWI	DTGDTF....
HOT75m3	VFFFVERDQV	SAKWKTSMTV	SGLITGIAFW	HYLYMRGVWI	DTGDTF....
HOT75m4	VFFFVERDQV	SAKWKTSMTV	SGLITGIAFW	HYLYMRGVWI	DTGDTF....
HOT75m8	VFFFVERDQV	SAKWKTSMTV	SGLITGIAFW	HYLYMRGVWI	DTGDTF....
MB0m1	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGDSF....
MB0m2	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGDSF....
MB100m10	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGDSF....
MB100m5	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGDSF....
MB100m7	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGDSF....
MB100m9	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGDSF....
MB20m12	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGDSF....
MB20m2	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGDSF....
MB20m5	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGDSF....
MB40m1	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGDSF....
MB40m12	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGDSF....
MB40m5	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGDSF....
MED101	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGDSF....
MED102	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGSSP....
MED106	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGDSF....
MED202	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGDSF....
MED204	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGSSP....
MED208	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGDSF....
MED25	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGSSP....
MED26	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGDSF....
MED27	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGDSF....
MED36	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGSSP....
medA15_r8_1	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYLYMRGVWV	ETGETP....
medA15_r8_3	VFFFVERDQV	SAKWKTSMTV	SGLVTGIAFW	HYLYMRGVWI	ETGETP....
medA15_r8ex7	VFFFVERDQV	SAKWKTSMTV	SGLVTGIAFW	HYLYMRGVWI	ETGETP....
medA15_r8ex9	VFFFVERDQV	SAKWKTSMTV	SGLVTGIAFW	HYLYMRGVWI	ETGETP....
medA15_r9_3	VFFFVERDQV	SAKWKTSMTV	SGLVTGIAFW	HYLYMRGVWI	ETGETP....
medA15r10b5	VFFFVERDQV	SAKWKTSMTV	SGLVTGIAFW	HYLYMRGVWI	ETGETP....
medA15r11b3	VFFFIERDRV	AAKWKTSMTV	SGLVTGIAFW	HYLYMRGVWV	ETGDSF....
medA15r11b9	VFFFVERDRV	SAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWI	ETGDSF....
medA15r8b3	VFFFIERDRV	AAKWKTSMTV	SGLVTGIAFW	HYMYMRGVWV	ETGESP....
medA15r8b8	VFFFIERDRV	SSKWKTSMTV	SALVTLIAAV	HYFYMRDVWV	ATGESP....
medA15r8b9	VFFFIERDRV	SAKWKTSMTV	SGLVTGIAFW	HYLYMRGVWV	DSWTGP.GTG

Figure 3-2

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medA15r8ex4 VFFIVERDRV SSKWKSTLTV SALVTLIAAV HYFYMRDVWV ATGESP....
medA15r8ex6 VFFFVERDRV SAKWKSTLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
medA15r9b5 VFFFVERDRV AAKWKSTLTV SGLVTGIAFW HYMYMRGVWV ETGESP....
medA15r9b7 VFFFVERDQV SAKWKSTLTV SGLVTGIAFW HYLYMRGVWI ETGETP....
medA17_r8_11 VFFIVERDRV SAKWKSTLTV SALVTLIAAV HYFYMRDVWV ATGESP....
medA17_r8_15 VFFIVERDRV SAKWKSTLTV SALMTLIAAV HYFYMRDVWV ATGESP....
medA17_r8_6 VFFFVERDQV SAKWKSTLTV SGLITGIAFW HYLYMRGVWV ETGDSP....
medA17R9_1 VFFFIERDRV SAKWKSTLTV SGLVTGIAFW HYLYMRGVWV DSWNPETGMG
medA19_R8_16 VFFFVERDQV SAKWKSTLTV SGLITGIAFW HYLYMRGVWI DTGGSP....
medA19_R8_19 VFFFVERDQV SAKWKSTLTV SGLITGIAFW HYLYMRGVWI DTGGSP....
medA19_R8_20 VFFFVERDQV SAKWKSTLTV SGLVTGIAFW HYLYMRGVWI ETGETP....
medA19_r9_9 VFFFVERDQV SAKWKSTLTV SGLVTGIAFW HYLYMRGVWI ETGETP....
PalB1 VFFFVERDQV SAKWKSTLTV SGLITGIAFW HYLYMRGVWI DTGDTP....
PalB2 VFFFVERDQV SAEWKSTLTV SGLITGIAFW HYLYMRGVWI DTGDTP....
PalB5 VFFFVERDQV SAKWKSTLTV SGLITGIAFW HYLYMRGVWI DTGDTP....
PalB6 VFFFVERDQV SAKWKSTLTV SGLITGIAFW HYLYMRGVWI DTGDTP....
PalB7 VFFFVERDQV SAKWKSTLTV SGLITGIAFW HYLYMRGVWI DTGDTP....
PalB8 VFFFVERDQV SAKWKSTLTV SGLITGIAFW HYLYMRGVWI DTGDTP....
Pale1 VFFFVERDQV SAKWKSTLTV SGLITGIAFW HYLYMRGVWI DTGDTP....
Pale6 VFFFVERDQV SAKWKSTLTV SGLITGIAFW HYLYMRGVWI DTGDTP....
Pale7 VFFFVERDQV SAKWKSTLTV SGLITGIAFW HYLYMRGVWI DTGDTP....
RED19 VFFFVERDRV SAKWKSTLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
RED2 VFFFVERDRV SAKWKSTLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
RED23 VFFFVERDRV SAKWKSTLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
RED27 VFFFVERDRV SAKWKSTLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
RED30 VFFFVERDRV SAKWKSTLTV SGLVTGIAFW HYMYMRGVWI ETGSSP....
RED4 VFFFVERDRV SAKWKSTLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
RED5 VFFFVERDRV SAKWKSTLAV SGLITGIAFW HYMYMRGVWI ETGDSP....
REDA9 VFFFVERDRV SAKWKSTLAV SGLITGIAFW HCMYMRGVWI ETGDSP....
REDB9 VFSFVERDRV SAKWKSTLTV SGLITGIAFW HYMYMRGVWI ETGDSP....
REDF9 VFFFVERDRV SAKWKSTLTV SGLITGIAFW HYMYMRGVWI ETGDSP....
REDr6a5a14 VFFFVERDRV SAEWKSTLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
REDr6a5a6 VFFFVERDRV SAKWKSTLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
REDr7_1_15 VFFFVERDRV SAKWKSTLTV PGLITDIAFW HYMYMRGVWI ETGDSP....
REDr7_1_16 VFFFVERDRV SAKWKSTLTV SGLVTGIAFW HYMYMRGVWI ETGDSP....
REDr7_1_4 VFFFVERDRV SAKWKSTLTV PGLITDIAFW HYMYMRGVWI ETGDSP....
REDS3_15 VFFFVERDRV SAKWKSTLTV PGLVTGIAFW HYMYMRGVWI ETGDSP....
REDS3_7 VFFFVERDRV SAKWKSTLTV PGLITDIAFW HYMYMRGVWI ETGDSP....
ANT32C12 VFFFVERDQV SAKWKSTLTV SGLITGIAFW HYLYMRGVWI DTGDTP....
HOT2C02 AFFFLERDRV AAKWKSTLTV AGLVTGIAAW HYFYMRGVWV ATGDSP....

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101

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BAC31A8 ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
BAC40E8 ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAAGLFKKL LVGSLVMLVF
BAC64A5 ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
HOT0m1 ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAAGLFKKL LVGSLVMLVF
HOT75m1 ...TVFRYID WLLTVPLQMV EFYLILAACT SVAASLFKKL LAGSLVMLGA
HOT75m3 ...TVFRYID WLLTVPLQMV EFYLILAACT SVAASLFKKL LAGSLVMLGA
HOT75m4 ...TVFRYID WLLTVPLQMV EFYLILAACT SVAASLFKKL LAGSLVMLGA
HOT75m8 ...TVFRYID WLLTVPLQMV EFYLILAACT NVAASLFKKL LAGSLVMLGA
MB0m1 ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAAGLFKKL LVGSLVMLVF
MB0m2 ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAAGLFKKL LVGSLVMLVF
MB100m10 ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
MB100m5 ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
MB100m7 ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
MB100m9 ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
MB20m12 ...TVFRYID WLLTVPLLIC EFYLILAAA NVAGSLFKKL LVGSLVMLVF
MB20m2 ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAAGLFKKL LVGSLVMLVF
MB20m5 ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
MB40m1 ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
MB40m12 ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF
MB40m5 ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAAGLFKKL LVGSLVMLVF
MED101 ...TVFRYID WLLTVPLLIC EFYLILAAAT NVAGSLFKKL LVGSLVMLVF

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Figure 3-3

MED102	...TVFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
MED106	...TVFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
MED202	...TVFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
MED204	...TVFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
MED208	...TVFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
MED25	...TVFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
MED26	...TVFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
MED27	...TVFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
MED36	...TVFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
medA15_r8_1	...TVFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
medA15_R8_3	...TVFRYID	WLLTVPLLMV	EFYLILAACT	NVAGSLFKKL	LGGSLVMLIA
medA15_r8ex7	...TVFRYID	WLLTVPLLMV	EFYLILAACT	NVAGSLFKKL	LIGSLVMLIA
medA15_R8ex9	...TVFRYID	WLLTVPLLMV	EFYLILAACT	NVAGSLFKKL	LIGSLVMLIA
medA15_r9_3	...TVFRYID	WLLTVPLLMV	EFYLILAACT	NVAGSLFKKL	LIGSLVMLIA
medA15r10b5	...TVFRYID	WLLTVPLLMV	EFYLILAACT	NVAGSLFKKL	LGGSLVMLIA
medA15r11b3	...TVFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LIGSLVMLVF
medA15r11b9	...TVFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
medA15r8b3	...TVFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
medA15r8b8	...TVFRYID	WLLTVPLLMV	EFYLILAACT	TVSSGIFWRL	LIGTVMLVG
medA15r8b9	ESPTEFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLIA
medA15r8ex4	...TVFRYID	WLLTVPLLMV	EFYLILAACT	TVSSGIFWRL	LIGTVMLVG
medA15r8ex6	...TVFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
medA15r9b5	...TVFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LIGSLVMLVF
medA15r9b7	...TVFRYID	WLLTVPLLMV	EFYLILAACT	NVAGSLFKKL	LGGSLVMLIA
medA17_r8_11	...TVFRYID	WLLTVPLLMV	EFYLILAACT	TVSSGIFWRL	LIGTVMLVG
medA17_r8_15	...TVFRYID	WLLTVPLLMV	EFYLILAACT	TVSSGIFWRL	LIGTVMLVG
medA17_R8_6	...TVFRYID	WLLTVPLQMV	EFYLILAACT	NVAGSLFKKL	LIGSLVMLIG
medA17R9_1	ESPTEFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLIA
medA19_R8_16	...TVFRYID	WLLTVPLQMV	EFYLILAACT	NVAGSLFKKL	LVGSLVMLGA
medA19_R8_19	...TVFRYID	WLLTVPLQMV	EFYLILAACT	NVAGSLFKKL	LVGSLVMLGA
medA19_R8_20	...TVFRYID	WLLTVPLLMV	EFYLILAACT	NVAGSLFKKL	LIGSLVMLIA
medA19_r9_9	...TVFRYID	WLLTVPLLMV	EFYLILAACT	NVAGSLFKKL	LGGSLVMLIA
PalB1	...TVFRYID	WLLTVPLQMV	EFYLILAACT	SVAASLFKKL	LAGSLVMLGA
PalB2	...TVFRYID	WLLTVPLQMV	EFYLILAACT	SVAASLFKKL	LAGSLVMLGA
PalB5	...TVFRYID	WLLTVPLQMV	EFYLILAACT	NVAASLFKKL	LAGSLVMLGA
PalB6	...TVFRYID	WLLTVPLQMV	EFYLILAACT	NVAASLFKKL	LAGSLVMLGA
PalB7	...TVFRYID	WLLTVPLQMV	EFYLILAACT	SVAASLFKKL	LAGSLVMLGA
PalB8	...TVFRYID	WLLTVPLQMV	EFYLILAACT	SVAASLFKKL	LAGSLVMLGA
PalE1	...TVFRYID	WLLTVPLQMV	EFYLILAACT	SVAASLFKKL	LAGSLVMLGA
PalE6	...TVFRYID	WLLTVPLQMV	EFYLILAACT	SVAASLFKKL	LAGSLVMLGA
PalE7	...TVFRYID	WLLTVPLQMV	EFYLILAACT	SVAASLFKKL	LAGSLVMLGA
RED19	...TVFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
RED2	...TVFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
RED23	...TVFRYID	WLLTVPLAIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
RED27	...TVFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
RED30	...TVFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
RED4	...TVFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
RED5	...TVFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
REDA9	...TVFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
REDB9	...TVFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
REDF9	...TVFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
REDr6a5a14	...TVFRYID	WLLTVPLEIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
REDr6a5a6	...TVFRYID	WLLTVPLVIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
REDr7_1_15	...TVFRYID	WLLTVSLQIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
REDr7_1_16	...TVFRYID	WLLTVPLLIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
REDr7_1_4	...TVFRYID	WLLTVPLQIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
REDs3_15	...AVFRYID	WLLTVPLEIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
REDs3_7	...TVFRYID	WLLTVPLQIC	EFYLILAAAT	NVAGSLFKKL	LVGSLVMLVF
ANT32C12	...TVFRYID	WLLTVPLQMV	EFYLILAACT	SVAASLFKKL	LAGSLVMLGA
HOT2C02	...TVLRYID	WLLTVPLQIV	EFYVILAAMT	AVASSLFWRL	LIASIIMLVF

Figure 3-4



BAC40E8	GYMGEAGIMN	AWGAFVIGCL	AWVYMIYELW	AGEG.KAACN	TASPAVQSAY
BAC64A5	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELY	AGEG.KSACN	TASPSVQSAY
HOT0m1	GYMGEAGIMN	AWGAFVIGCL	AWVYMIYELW	AGEG.KAACN	TASPAVQSAY
HOT75m1	GFAGEAGLAP	VLPAFIIGMA	GWLYMIYELY	MGEG.KAAVS	TASPAVNSAY
HOT75m3	GFAGEAGLAP	VLPAFIIGMA	GWLYMIYELH	MGEG.KAAVS	TASPAVNSAY
HOT75m4	GFAGEAGLAP	VLPAFIIGMA	GWLYMIYELY	MGEG.KAAVS	TASPAVNSAY
HOT75m8	GFAGEAGLAP	VWPAFIIGMA	GWLYMIYELY	MGEG.KAAVS	TASPAVNSAY
MB0m1	GYMGEAGIMN	AWPAFIIGCL	AWVYMIYELY	AGEG.KSACN	TASPSVQSAY
MB0m2	GYMGEAGIMN	AWGAFVIGCL	AWVYMIYELW	LGEG.KAACN	TASPAVQSAY
MB100m10	GYMGEAGIMA	AWPAFIVGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
MB100m5	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELY	AGEG.KSACN	TASPSVQSAY
MB100m7	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELY	AGEG.KSACN	TASPSVQSAY
MB100m9	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
MB20m12	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
MB20m2	GYMGEAGIMN	AWGAFVIGCL	AWVYMIYELW	AGEG.KAACN	TASPAVQSAY
MB20m5	GYMGEAQIMA	AWPAFIIGCL	AWVYMIYELY	AGEG.KSACN	TASPSVQSAY
MB40m1	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELY	AGEG.KSACN	TASPAVQSAY
MB40m12	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
MB40m5	GYMGEAGIMN	AWGAFVIGCL	AWVYMIYELW	AGEG.KAACN	TASPAVQSAY
MED101	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
MED102	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
MED106	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
MED202	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
MED204	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
MED208	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
MED25	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
MED26	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
MED27	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
MED36	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
medA15_r8_1	GYMGEAGIMA	ALPAFIIGCL	AWIYMIYELW	AGEG.KSACN	TASPAVQSAY
medA15_R8_3	GYMGESGSLP	VLPAFIVGCL	AWFYMIYELY	AGEG.KAAVT	TASPAVMSAY
medA15_r8ex7	GYMGESGSLP	VLPAFLVGCA	AWLYMIYELY	AGEG.KAAVT	TASPAVMSAY
medA15_R8ex9	GYMGESGSLP	VLPAFLVGCA	AWLYMIYELY	AGEG.KAAVT	TASPAVMSAY
medA15_r9_3	GYMGESGNLP	VLPAFLIGCA	AWLYMIYELY	AGEG.KAAVT	TASPAVMSAY
medA15r10b5	GYMGESGSLP	VLPAFIVGCL	AWFYMIYELY	AGEG.KAAVT	TASPAVMSAY
medA15r11b3	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
medA15r11b9	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
medA15r8b3	GYMGEAGIMA	AWPAFIVGCL	AWFYMIYELW	AGEG.KSACN	TASPAVQSAY
medA15r8b8	GYMGEAGMIS	VMTGFIIGMI	GWLYIILYEIF	AGEASKANAS	SGSAACQTAF
medA15r8b9	GYMGESGNAN	VMIAFVVGCL	AWLYMIYELW	AGEG.KAACN	TASPAVQSAY
medA15r8ex4	GYMGEAGMIS	VMTGFIIGMI	GWLYIILYEIF	AGEASKANAS	SGSAACQTAF
medA15r8ex6	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
medA15r9b5	GYMGEAGIMA	AWPAFIIGCL	AWFYMIYELW	AGEG.KSACN	TASPAVQSAY
medA15r9b7	GYMGESGSLP	VLPAFIVGCL	AWFYMIYELY	AGEG.KAAVT	TASPAVMSAY
medA17_r8_11	GYLGEAGMIS	VMTGFIIGMI	GWLYIILYEIF	AGEASKANAS	SGSAACQTAF
medA17_r8_15	GYLGEAGMIS	VMTGFIIGMI	GWLYIILYEIF	AGEASKANAS	SGSAACQTAF
medA17_R8_6	GFLGEAGMID	VTLAFVIGMA	GWLYMIYELY	MGEG.KAAVS	TASPAVNSAY
medA17R9_1	GYMGESGNAN	VMIAFVVGCL	AWLYMIYELW	AGEG.KAACN	TASPAVQSAY
medA19_R8_16	GFAGEAGLAP	ALPAFILGMA	GWVYMIYELY	MGEG.KAAVS	TASPAVNSAY
medA19_R8_19	GFAGEAGLAP	ALPAFILGMA	GWVYMIYELY	MGEG.KAAVS	TASPAVNSAY
medA19_R8_20	GYMGESGSLP	VLPAFLVGCA	AWLYMIYELY	AGEG.KAAVT	TASPAVMSAY
medA19_r9_9	GYMGESGSLP	VLPAFIVGCL	AWFYMIYELY	AGEG.KAAVT	TASPAVMSAY
PalB1	GFAGEAGLAP	VLPAFILGMA	GWLYMIYELH	MGEG.KAAVS	TASPAVNSAY
PalB2	GFAGEAGLAP	VLPAFIIGMA	GWLYMIYELY	MGEG.KAAVS	TASPAVNSAY
PalB5	GFAGEAGLAP	VWPAFIIGMA	GWLYMIYELY	MGEG.KAAVS	TASPAVNSAY
PalB6	GFAGEAGLAP	VWPAFIIGMA	GWLYMIYELY	MGEG.KAAVS	TASPAVNSAY
PalB7	GSAGEAGLAP	VLPAFIIGMA	GWLYMIYELY	MGEG.KAAVS	TASPAVNSAY
PalB8	GFAGEAGLAP	VLPAFIIGMA	GWLYMIYELY	MGEG.KAAVS	TASPAVNSAY
PalE1	GFAGEAGLAP	VLPAFIIGMA	GWLYMIYELY	MGEG.KAAVS	TASPAVNPAY
PalE6	GFAGEAGLAP	VLPAFIIGMA	GWLYMIYELH	MGEG.KAAVS	TASPAVNSAY
PalE7	GFAGEAGLAP	VLPAFIIGMA	GWLYMIYELY	MGEG.KAAVS	TASPAVNSAY
RED19	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
RED2	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY

Figure 3-5

RED23	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
RED27	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
RED30	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
RED4	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
RED5	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
REDA9	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
REDB9	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
REDF9	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
REDr6a5a14	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
REDr6a5a6	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
REDr7_1_15	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
REDr7_1_16	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
REDr7_1_4	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
REDS3_15	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
REDS3_7	GYMGEAGIMA	AWPAFIIGCL	AWVYMIYELW	AGEG.KSACN	TASPAVQSAY
ANT32C12	GFAGEAGLAP	VLPAFIIGMA	GWLYMIYELY	MGEK.KAAVS	TASPAVNSAY
HOT2C02	GYMGETGAMN	VTLAFVIGMA	GWLYIIEYVF	AGEASKASAG	SGNAAGQTAF

201

250

BAC31A8	NTMMYIIIFG	WAIYPVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
BAC40E8	NTMMYIIIFG	WAIYPVGYFT	GYLMG..DGG	SALNLIYD	LADFNKILF
BAC64A5	NTMMAIIVFG	WAIYPIGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
HOT0m1	NTMMYIIIFG	WAIYPVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
HOT75m1	NAMMMIIVVG	WAIYPAGYAA	GYLMGG.EGV	YASNLNLIYIN	LADLVNKILF
HOT75m3	NAMMKIIVIG	WAIYPAGYAA	GYLMGG.DGV	YASNLNLIYIN	LADFNKILF
HOT75m4	NAMMMIIVVG	WAIYPAGYAA	GYLMGG.EGV	YASNLNLIYIN	LADFNKILF
HOT75m8	NAMMVIIIVG	WAIYPAGYAA	GYLMGG.EGV	YASNLNLIYIN	LADLVNKILF
MB0m1	NTMMAIIVFG	WAIYPVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
MB0m2	NTMMYIIIFG	WAIYPVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
MB100m10	NTMMYIIIVG	WAIYPVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
MB100m5	NTMMAIIVFG	WAIYPVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
MB100m7	NTMMAIIVFG	WAIYPVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
MB100m9	NTMMYIIIFG	WAIYPVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
MB20m12	NTMMYIIIFG	WAIYPVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
MB20m2	NTMMYIIIFG	WAIYPVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
MB20m5	NTMMAIIVFG	WAIYPVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILL
MB40m1	NTMMYIIIVG	WAIYPVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
MB40m12	NTMMYIIIVG	WAIYPVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
MB40m5	NTMMYIIIFG	WAIYPVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
MED101	NTMMYIIIVG	WAIYPVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
MED102	NTMMYIIIVG	WAIYPVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
MED106	NTMMYIIIVG	WAIYPVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
MED202	NTMMYIIIFG	WAIYLVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
MED204	NTMMYIIIVG	WAIYPVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
MED208	NTMMYIIIVG	WAIYPVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
MED25	NTMMYIIIVG	WAIYPVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
MED26	NTMMYIIIVG	WAIYPVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
MED27	NTMMYIIIVG	WAIYPVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
MED36	NTMMYIIIVG	WAIYPVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
medA15_r8_1	NTMMYIIIFG	WLIYPVGYAS	GYLMG..DGG	SAMNLIYIN	LADFNKILF
medA15_r8_3	NTMMLIIVVG	WAIYPAGYAA	GYLMGG.DGV	YAQNLIYIN	LADFNKILF
medA15_r8ex7	NTMMLIIVVG	WAIYPAGYAA	GYLMGG.DGV	YAQNLIYIN	LADFNKILF
medA15_r8ex9	NTMMLIIVVG	WAIYPAGYAA	GYLMGG.DGV	YAQNLIYIN	LADFNKILF
medA15_r9_3	NTMMLIIVVG	WAIYPAGYAA	GYLMGG.DGV	YAQNLIYIN	LADFNKILF
medA15r10b5	NTMMLIIVVG	WAIYPAGYAA	GYLMGG.DGV	YAQNLIYIN	LADFNKILF
medA15r11b3	NTMMYIIIFG	WAIYPVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
medA15r11b9	NTMMYIIIFG	WAIYLVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
medA15r8b3	NTMMYIIIVG	WAIYPLGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
medA15r8b8	GALRLIIVTVG	WAIYPIGYFV	GYLTGGG..A	DAATLIYIN	LADFNKIAF
medA15r8b9	NTMMWIIIVG	WAIYPAGYAA	GYLMGG.ESV	YASNLNLIYIN	LADFNKILF
medA15r8ex4	GALRLIIVTVG	WAIYPIGYFV	GYLTGGG..A	DAATLIYIN	LADFNKIAF
medA15r8ex6	NTMMYIIIFG	WAIYPVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF
medA15r9b5	NTMMYIIIVG	WAIYPVGYFT	GYLMG..DGG	SALNLIYIN	LADFNKILF

Figure 3-6

medA15r9b7	NTMMLIIVVG	WAIYPAGYAA	GylMGG.DGV	YAQNlnVIYN	LADfVNkILF
medA17_r8_11	GALRLIVTIG	WAIYPLGYFL	GylGGG...A	DPATLNIVYN	LADfVNkIAF
medA17_r8_15	GALRLIVTIG	WAIYPLGYFL	GylGGG...A	DPATLNIVYN	LADfVNkIAF
medA17_r8_6	NAMMLIIVVG	WSIYPAGYVA	GylMGG.EGV	YASNLNLIYN	LADfVNkILF
medA17R9_1	NTMMWIIIVG	WAIYPAGYAA	GylMGG.ESV	YASNLNLIYN	LADfVNkILF
medA19_r8_16	NAMMMIIVFG	WSIYPLGYVA	GylMG...AV	DPSTLNLIYN	LADfVNkILF
medA19_r8_19	NAMMMIIVFG	WSIYPLGYVA	GylMG...AV	DPSTLNLIYN	LADfVNkILF
medA19_r8_20	NTMMLIIVVG	WAIYPAGYAA	GylMGG.DGV	YAQNlnVIYN	LADfVNkILF
medA19_r9_9	NTMMLIIVVG	WAIYPAGYAA	GylMGG.DGV	YAQNlnVIYN	LADfVNkILF
PalB1	NAMMKIIVIG	WAIYPAGYAA	GylMSG.DGV	YASNLNLIYN	LADfVNkILF
PalB2	NAMMMIIVVG	WAIYPAGYAA	GylMGG.EGV	YASNLNLIYN	LADfVNkILF
PalB5	NAMMMIIVVG	WAIYPAGYAA	GylMGG.EGV	YASNLNLIYN	LADfVNkILF
PalB6	NAMMVIIIVG	WAIYPAGYAA	GylMGG.EGV	YASNLNLIYN	LADfVNkILF
PalB7	NAMMMIIVVG	WAIYPAGYAA	GylMGG.EGV	YASNLNLIYN	LADfVNkILF
PalB8	NAMMMIIVVG	WAIYPAGYAA	GylMGG.EGV	YASNLNLIYN	LADfVNkILF
Pale1	NAMMMIIVVG	WAIYPAGYAA	GylMGG.EGV	YASNLNLIYN	LADfVNkILF
Pale6	NAMMKIIVIG	WAIYPAGYAA	GylMSG.DGV	YASNLNLIYN	LADfVNkILF
Pale7	NAMMMIIVVG	WAIYPAGYAA	GylMGG.EGV	YASNLNLIYN	LADfVNkILF
RED19	NTMMYIIIVG	WAIYPVGYFT	GylMG...DGG	SALNLNLIYN	LADfVNkILF
RED2	NTMMYIIIVG	WAIYPVGYFT	GylMG...DGG	SALNLNLIYN	LADfVNkILF
RED23	NTMMYIIIFG	WAIYPVGYFT	GylMG...DGG	SALNLNLIYN	LADfVNkILF
RED27	NTMMYIIIFG	WAIYLVGYFT	GylMG...DGG	SALNLNLIYN	LADfVNkILF
RED30	NTMMYIIIFG	WAIYLVGYFT	GylMG...DGG	SALNLNLIYN	LADfVNkILF
RED4	NTMMYIIIVG	WAIYPVGYFT	GylMG...DGG	SALNLNLIYN	LADfVNkILF
RED5	NTMMYIIIVG	WAIYPVGYFT	GylMG...DGG	SALNLNLIYN	LADfVNkILF
REDA9	NTMMYIIIFG	WAIYPVGYFT	GylMG...DGG	SALNLNLIYN	LADfVNkILF
REDB9	NTMMYIIIFG	WAIYPVGYFT	GylMG...DGG	SALNLNLIYN	LADfVNkILF
REDF9	NTMMYIIIFG	WAIYPVGYFT	GylMG...DGG	SALNLNLIYN	LADfVNkILF
REDr6a5a14	NTMMYIIIFG	WAIYPVGYFT	GylMG...DGG	SALNLNLIYN	LADfVNkILI
REDr6a5a6	NTMMYIIIFG	WAIYPVGYFT	GylMG...DGG	SALNLNLIYN	LADfVNkILF
REDr7_1_15	NTMMYIIIFG	WAIYPVGYFT	GylMG...DGG	SALNLNLIYN	LADfVNkILF
REDr7_1_16	NTMMYIIIFG	WAIYLVGYFT	GylMG...DGG	SALNLNLIYN	LADfVNkILF
REDr7_1_4	NTMMYIIIFG	WAIYPVGYFT	GylMG...DGG	SALNLNLIYN	LADfVNkILF
REDs3_15	NTMMYIIIFG	WAIYPVGYFT	GylMG...DGG	SALNLNLIYN	LADfVNkILF
REDs3_7	NTMMYIIIFG	WAIYPVGYFT	GylMG...DGG	SALNLNLIYN	LADfVNkILF
ANT32C12	NAMMMIIVVG	WAIYPAGYAA	GylMGG.EGV	YASNLNLIYN	LADfVNkILF
HOT2C02	NALRLIVTVG	WAIYPIGYAV	GyFGG...GV	DAGSLNLIYN	LADfVNkIAF

	251	266
BAC31A8	GLIIWNVAVK	ESSNA.
BAC40E8	GLIIWNVAVK	ESSNAK
BAC64A5	GLIIWNVAVK	ESSNAK
HOT0m1	GLIIWNVAVK	ESSNA.
HOT75m1	GLIIWNVAVK	ESSNA.
HOT75m3	GLIIWNVAVK	ESSNA.
HOT75m4	GLIIWNVAVK	ESSNA.
HOT75m8	GLIIWNVAVK	ESSNA.
MB0m1	GLIIWNVAVK	ESSNA.
MB0m2	GLIIWNVAVK	ESSNA.
MB100m10	GLIIWNVAVK	ESSNA.
MB100m5	GLIIWNVAVK	ESSNA.
MB100m7	GLIIWNAVK	ESSNA.
MB100m9	GLIIWNVAVK	ESSNA.
MB20m12	GLIIWNVAVK	ESS...
MB20m2	GLIIWNVAVK	ESSNA.
MB20m5	GLIIWNVAVK	ESSNA.
MB40m1	GLIIWNVAVK	ESSNA.
MB40m12	GLIIWNVAVK	ESSNA.
MB40m5	GLIIWNVAVK	ESS...
MED101	GLIIWNVAVK	ESSNA.
MED102	GLIIWNVAVK	ESSNA.
MED106	GLIIWNVAVK	ESSNA.
MED202	GLIIWNVAVK	ESSNA.

Figure 3-7

MED204	GLIIWNVAVK	ESSNA.
MED208	GLIIWNVAVK	ESSNA.
MED25	GLIIWNVAVK	ESSNA.
MED26	GLIIWNVAVK	KSSNA.
MED27	GLIIWNVAVK	ESSNA.
MED36	GLIIWNVAVK	ESSNA.
medA15_r8_1	GLIIWNVAVK	ESSNA.
medA15_R8_3	GLVIWHVAVK	ESSNA.
medA15_r8ex7	GLVIWHVAVK	ESSNA.
medA15_R8ex9	GLVIWHVAVK	ESSNA.
medA15_r9_3	GLVIWHVAVK	ESSNA.
medA15r10b5	GLVIWHVAVK	ESSNA.
medA15r11b3	GLIIWHVAVK	ESSNA.
medA15r11b9	GLIIRNVAVK	ESSNA.
medA15r8b3	GLIIWHVAVK	ESSNA.
medA15r8b8	GLIIWAAVAVK	ESSNA.
medA15r8b9	GLIIWHVAVK	ESSNA.
medA15r8ex4	GLIIWAAVAVK	ESSNA.
medA15r8ex6	GLIIWNVAVK	ESSNA.
medA15r9b5	GLIIWHVAVK	ESSNA.
medA15r9b7	GLVIWHVAVK	ESSNA.
medA17_r8_11	GLIIWAAVAVK	ESSNA.
medA17_r8_15	GLIIWAAVAVK	ESSNA.
medA17_R8_6	GLIIWHVAVK	ESSNA.
medA17R9_1	GLIIWHVAVK	ESSNA.
medA19_R8_16	GLIIWHVAVK	ESSNA.
medA19_R8_19	GLIIWHVAVK	ESSNA.
medA19_R8_20	GLVIWHVAVK	ESSN..
medA19_r9_9	GLVIWHVAVK	ESSNA.
PalB1	GLIIWNVAVK	ESSNA.
PalB2	GLIIWNVAVK	ESSNA.
PalB5	GLIIWNVAVK	ESSNA.
PalB6	GLIIWNVAVK	ESSNA.
PalB7	GLIIWNVAVK	ESSNA.
PalB8	GLIIWNVAVK	ESSNA.
Pale1	GLIIWNVAVK	ESSNA.
Pale6	GLIIWNVAVK	ESSNA.
Pale7	GLIIWNVAVK	ESSNA.
RED19	GLIIWNVAVK	ESSNA.
RED2	GLIIWNVAVK	ESSNA.
RED23	GLIIWNVAVK	ESSNA.
RED27	GLIIWNVAVK	ESSNA.
RED30	GLIIWNVAVK	ESSNA.
RED4	GLIIWNVAVK	ESSNA.
RED5	GLIIWNVAVK	ESSNA.
REDA9	GLIIWNVAVK	ESSNA.
REDB9	GLIIWNVAVK	ESSNA.
REDF9	GSIIWNVAVK	ESSNA.
REDr6a5a14	GLIIWNVAVK	ESSNA.
REDr6a5a6	GLIIWNVAVK	ESSNA.
REDr7_1_15	GLIIWNVAVK	ESSNA.
REDr7_1_16	GLIIWNVAVK	ESSNA.
REDr7_1_4	GLIIWNVAVK	ESSNA.
REDS3_15	GLIIWNVAVK	ESSNA.
REDS3_7	GLIIWNVAVK	ESSN..
ANT32C12	GLIIWNVAVK	ESSNA.
HOT2C02	GMAIYVAVS	DSN...

Figure 3-8

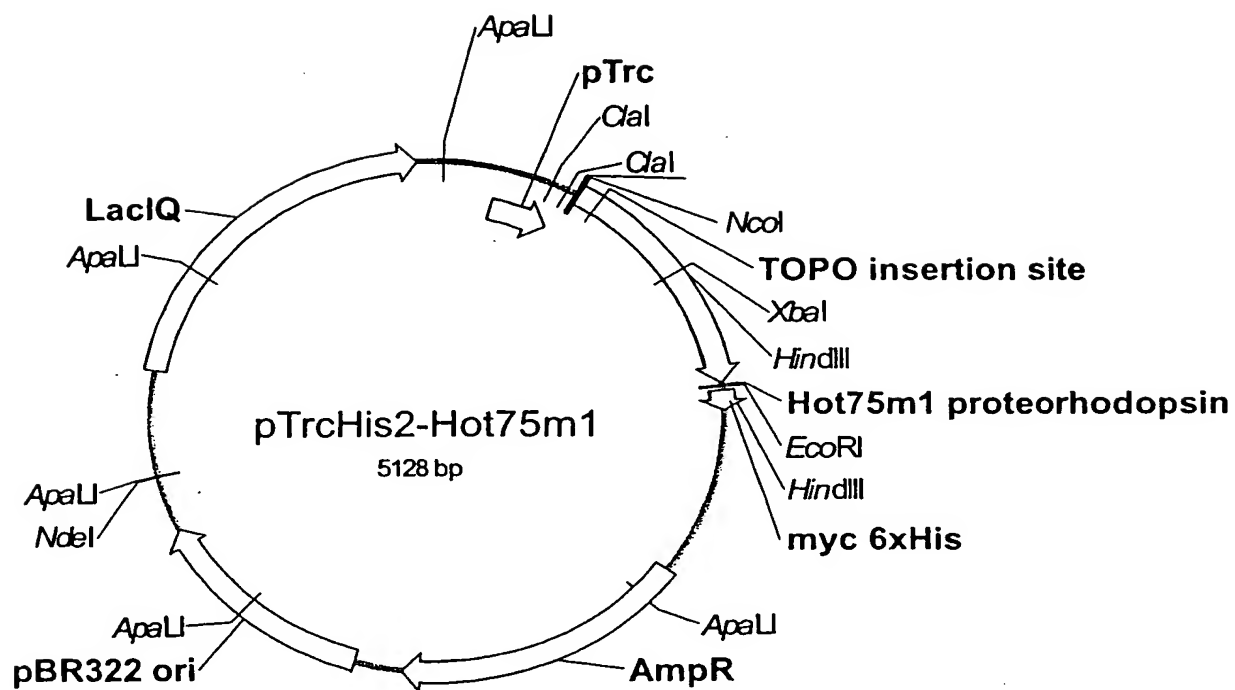


Figure 4

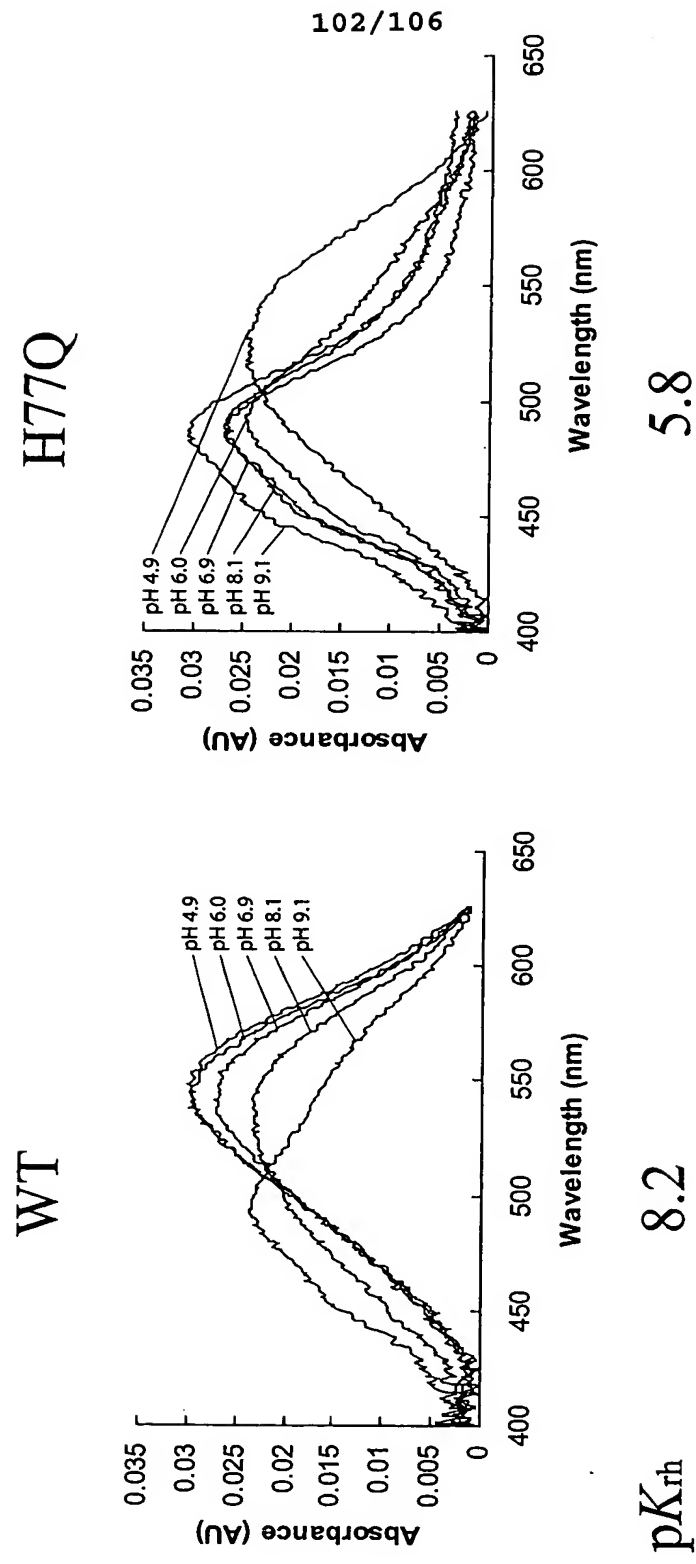


Figure 5

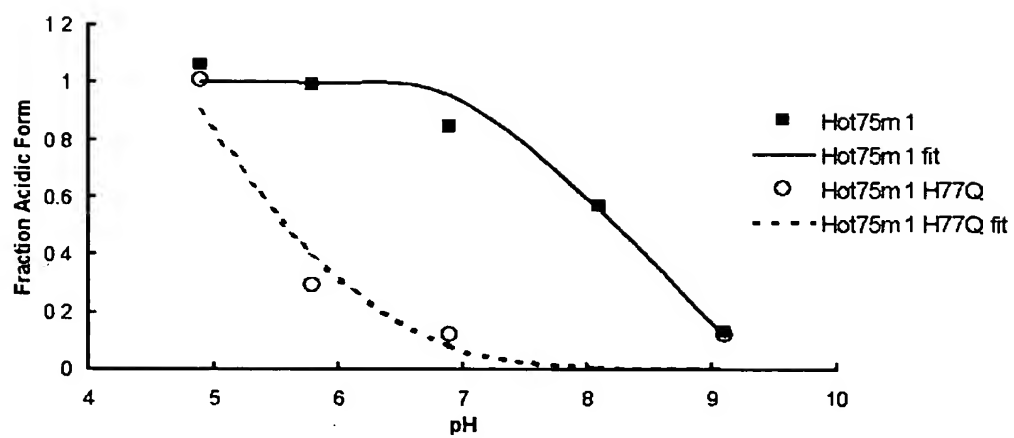


Figure 6

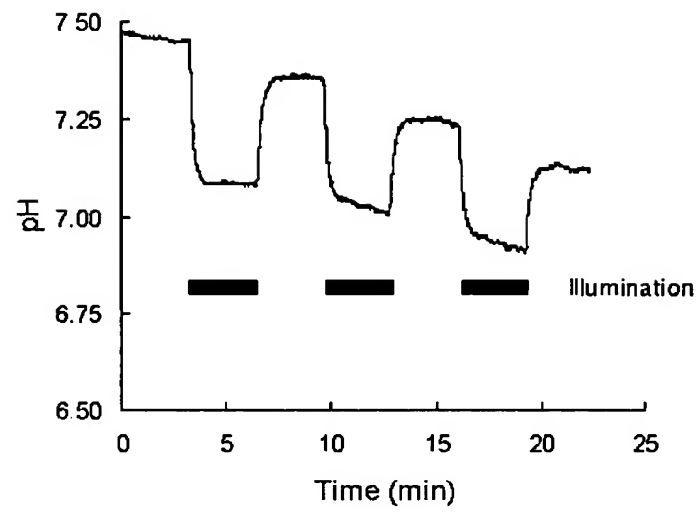


Figure 7-1



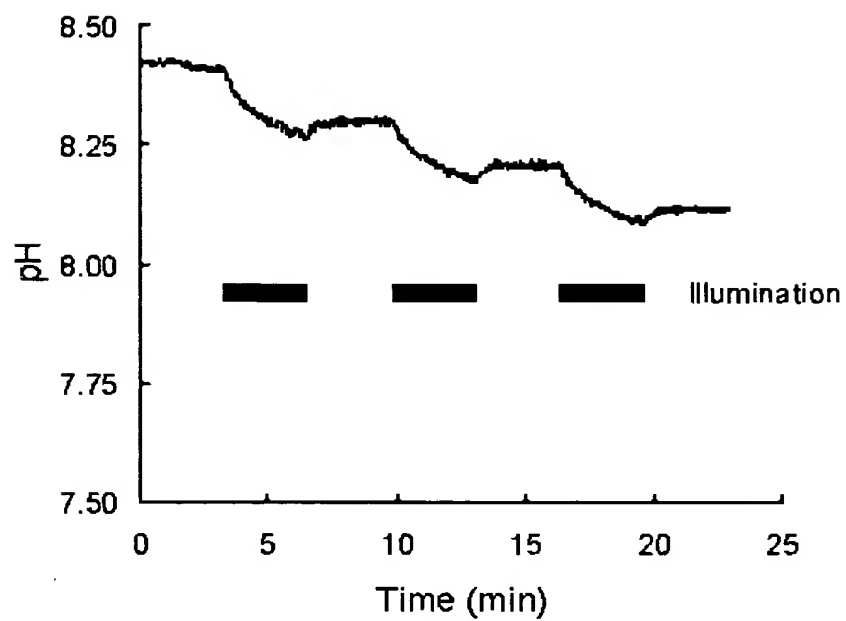


Figure 7-2

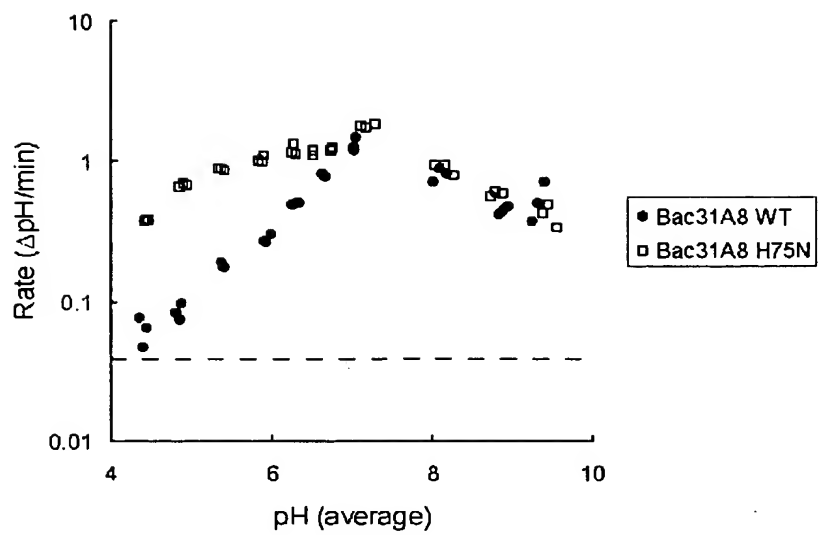


Figure 7-3